					DEPARTMENT	T OF NA	OF UTAH ATURAL RESO GAS AND M				AMEN	FC DED REPOR	RM 3	
		AP	PLICATION F	OR P	PERMIT TO DRILL					1. WELL NAME and N		22-1J1CS		
2. TYPE O	F WORK	DRILL NEW WELL	REENTE	R P&A	WELL DEEPEN	I WELL [)			3. FIELD OR WILDCA		BUTTES		
4. TYPE O	F WELL				d Methane Well: NO					5. UNIT or COMMUNI	TIZATION NATURAL		ENT NAM	ΛE
6. NAME C	F OPERATOR				AS ONSHORE, L.P.					7. OPERATOR PHONE				
8. ADDRE	SS OF OPERATO	OR								9. OPERATOR E-MAIL	L			
	AL LEASE NUM	BER	P.O. BOX 1737		nver, CO, 80217 11. MINERAL OWNERS	SHIP				12. SURFACE OWNER		anadarko	.com	
		UTU-011336			FEDERAL (III) IND	DIAN 🛑) STATE () FEE(DIAN 🛑	STATE	~	EE 💮
13. NAME	OF SURFACE	OWNER (if box 12 :	= 'fee')							14. SURFACE OWNER	R PHONE	(if box 12	= 'fee')	
15. ADDR	ESS OF SURFA	CE OWNER (if box	12 = 'fee')							16. SURFACE OWNER	R E-MAIL	. (if box 12	= 'fee')	
	N ALLOTTEE OI	R TRIBE NAME			18. INTEND TO COMM MULTIPLE FORMATION		PRODUCTION	FROM		19. SLANT				
(if box 12 = 'INDIAN') YES ((Submit Commingling Application) NO VERTICAL DIRECTIONAL HORIZONTAL (ΓAL 🔵				
20. LOCA	TION OF WELL			FOC	DTAGES	QT	TR-QTR	SECT	ION	TOWNSHIP	R	ANGE	МЕ	ERIDIAN
LOCATIO	N AT SURFACE		18	77 FSL	L 2227 FEL	1	NWSE	1		10.0 S	2:	2.0 E		S
Top of U	ppermost Prod	ucing Zone	20	78 FSL	L 1807 FEL	1	NWSE	1		10.0 S	2:	2.0 E		S
At Total	Depth		20	78 FSL	L 1807 FEL	1	NWSE	1		10.0 S	2:	2.0 E		S
21. COUN	TY	UINTAH		- [22. DISTANCE TO NEA		EASE LINE (F 48	eet)		23. NUMBER OF ACRI		ILLING UN 23	IT	
					25. DISTANCE TO NEA (Applied For Drilling	or Comp		POOL		26. PROPOSED DEPTI		TVD: 849	4	
27. ELEV	TION - GROUN	D LEVEL		- 2	28. BOND NUMBER					29. SOURCE OF DRILL WATER RIGHTS APPR			DDI ICAB	15
		5082					000291			WATER MOTITO AT THE		3496	II LIOAD	
String	Hole Size	Casing Size	Length	Wei	Hole, Casing		Max Mu			Cement		Sacks	Yield	Weight
Surf	12.25	8.625	0 - 2180	28	_		0.2			Type V		180	1.15	15.8
										Class G		270	1.15	15.8
Prod	7.875	4.5	0 - 8540	11	.6 I-80 LT8	&C	12.	5	Prer	mium Lite High Strer	ngth	270	3.38	11.0
										50/50 Poz		1160	1.31	14.3
					A	TTACH	HMENTS							
	VER	IFY THE FOLLO	WING ARE A	TACI	HED IN ACCORDAN	ICE WIT	TH THE UTA	AH OIL AN	D GAS	CONSERVATION G	ENERA	L RULES		
₩ w	ELL PLAT OR M	AP PREPARED BY I	LICENSED SUR	/EYOR	OR ENGINEER		сом	PLETE DRIL	LING P	LAN				
AF	FIDAVIT OF STA	TUS OF SURFACE	OWNER AGREE	MENT	(IF FEE SURFACE)		FORM	1 5. IF OPER	RATOR I	S OTHER THAN THE LE	EASE OW	/NER		
☑ DIF	RECTIONAL SUI	RVEY PLAN (IF DIR	ECTIONALLY C	R HOF	RIZONTALLY DRILLED))	торо	GRAPHICA	L MAP					
NAME Gi	na Becker			Т	Γ ITLE Regulatory Analy	rst II	1		PHON	E 720 929-6086				
SIGNATU	RE				DATE 02/03/2012				EMAIL	gina.becker@anadark	o.com			
	BER ASSIGNED)4752384(0000		A	APPROVAL				B	0029111				
									Pern	nit Manager				

NBU 1022-1J Pad Drilling Program
1 of 7

Kerr-McGee Oil & Gas Onshore. L.P.

NBU 1022-1J1CS

Surface: 1877 FSL / 2227 FEL NWSE BHL: 2078 FSL / 1807 FEL NWSE

Section 1 T10S R22E

Uintah County, Utah Mineral Lease: UTU-011336

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. & 2. <u>Estimated Tops of Important Geologic Markers</u>: <u>Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations</u>:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1104	
Birds Nest	1367	Water
Mahogany	1731	Water
Wasatch	4136	Gas
Mesaverde	6348	Gas
MVU2	7277	Gas
MVL1	7872	Gas
TVD	8494	
TD	8540	

3. <u>Pressure Control Equipment</u> (Schematic Attached)

Please refer to the attached Drilling Program

4. <u>Proposed Casing & Cementing Program:</u>

Please refer to the attached Drilling Program

5. <u>Drilling Fluids Program:</u>

Please refer to the attached Drilling Program

6. <u>Evaluation Program</u>:

Please refer to the attached Drilling Program

NBU 1022-1J Pad Drilling Program 2 of 7

7. <u>Abnormal Conditions</u>:

Maximum anticipated bottom hole pressure calculated at 8494' TVD, approximately equals 5,436 psi 0.64 psi/ft = actual bottomhole gradient

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 3,556 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. <u>Anticipated Starting Dates:</u>

Drilling is planned to commence immediately upon approval of this application.

9. <u>Variances:</u>

Please refer to the attached Drilling Program. Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- · Blowout Prevention Equipment (BOPE) requirements;
- Mud program requirements; and
- Special drilling operation (surface equipment placement) requirements associated with air drilling.

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

NBU 1022-1J Pad Drilling Program
3 of 7

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12 1/4 inch hole for the first 200 feet, then will drill a 11inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KM well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and

NBU 1022-1J Pad Drilling Program
4 of 7

on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Variance for FIT Requirements

KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

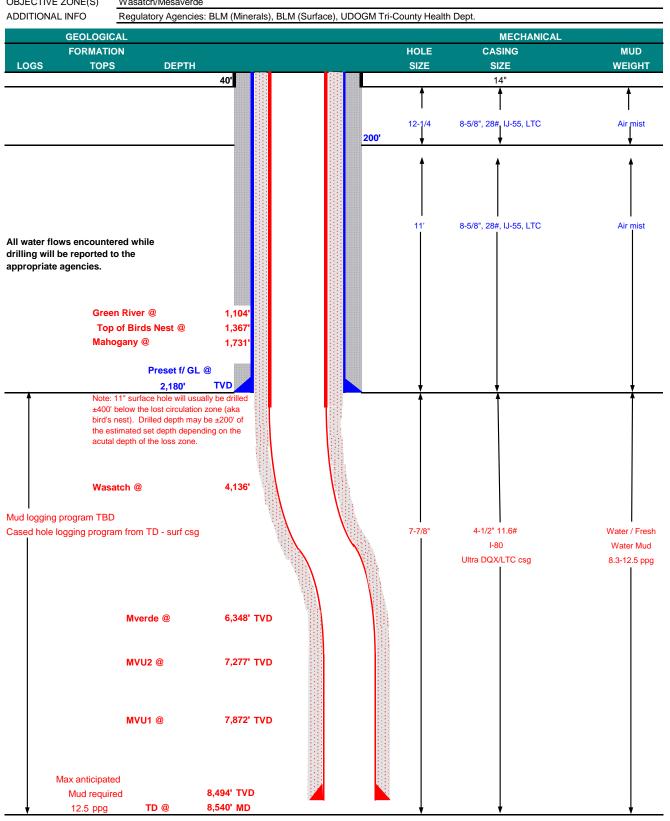
10. <u>Other Information:</u>

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME KERR-McGEE OIL & GAS ONSHORE LP DATE October 5, 2011 NBU 1022-1J1CS 8,540' MD WELL NAME TD 8,494' TVD FIELD FINISHED ELEVATION Natural Buttes **COUNTY Uintah** STATE Utah 5082.1 SURFACE LOCATION **NWSE** 1877 FSL 2227 FEL Sec 1 T 10S R 22E Latitude: 39.975841 Longitude: -109.386757 **NAD 83** BTM HOLE LOCATION **NWSE** 2078 FSL 1807 FEL T 10S R 22E Sec 1 Latitude: 39.976385 Longitude: -109.385255 **NAD 83** OBJECTIVE ZONE(S) Wasatch/Mesaverde





KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM	SING PROGRAM									DESIGN FACTORS					
_										LTC	DQX				
	SIZE	INTE	RVAL		WT.	GR.	CPLG.	BURST	COLL	APSE	TENSION				
CONDUCTOR	14"	0-40'													
								3,390	1,880	348,000	N/A				
SURFACE	8-5/8"	0	to	2,180	28.00	IJ-55	LTC	2.48	1.84	6.51	N/A				
								7,780	6,350	223,000	267,035				
PRODUCTION	4-1/2"	0	to	5,000	11.60	I-80	DQX	1.11	1.15		3.33				
	4-1/2"	5,000	to	8,540'	11.60	I-80	LTC	1.11	1.15	6.71					

Surface Casing:

(Burst Assumptions: TD = 12.5 ppg) 0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 7000 psi) 0.64 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
Option 1		+ 0.25 pps flocele				
TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
		+ 2% CaCl + 0.25 pps flocele				
SURFACE		NOTE: If well will circulate water	to surface,	option 2 wil	l be utilized	
Option 2 LEAD	1,680'	65/35 Poz + 6% Gel + 10 pps gilsonite	160	35%	11.00	3.82
		+ 0.25 pps Flocele + 3% salt BWOW				
TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
		+ 0.25 pps flocele				
TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION LEAD	3,630'	Premium Lite II +0.25 pps	270	20%	11.00	3.38
		celloflake + 5 pps gilsonite + 10% gel				
		+ 0.5% extender				
TAIL	4,910'	50/50 Poz/G + 10% salt + 2% gel	1,160	35%	14.30	1.31
		+ 0.1% R-3				

^{*}Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe						
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.						

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000 minimum intervals.	

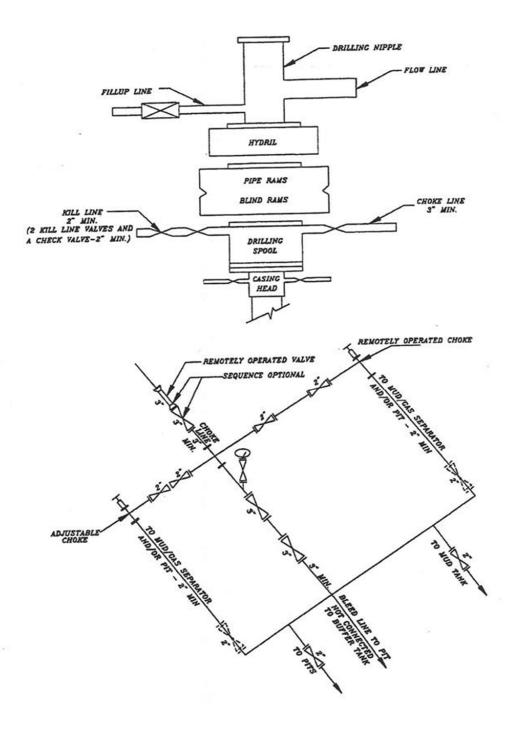
Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:		DATE:	
	Nick Spence / Danny Showers / Chad Loesel	_	
DRILLING SUPERINTENDENT:		DATE:	

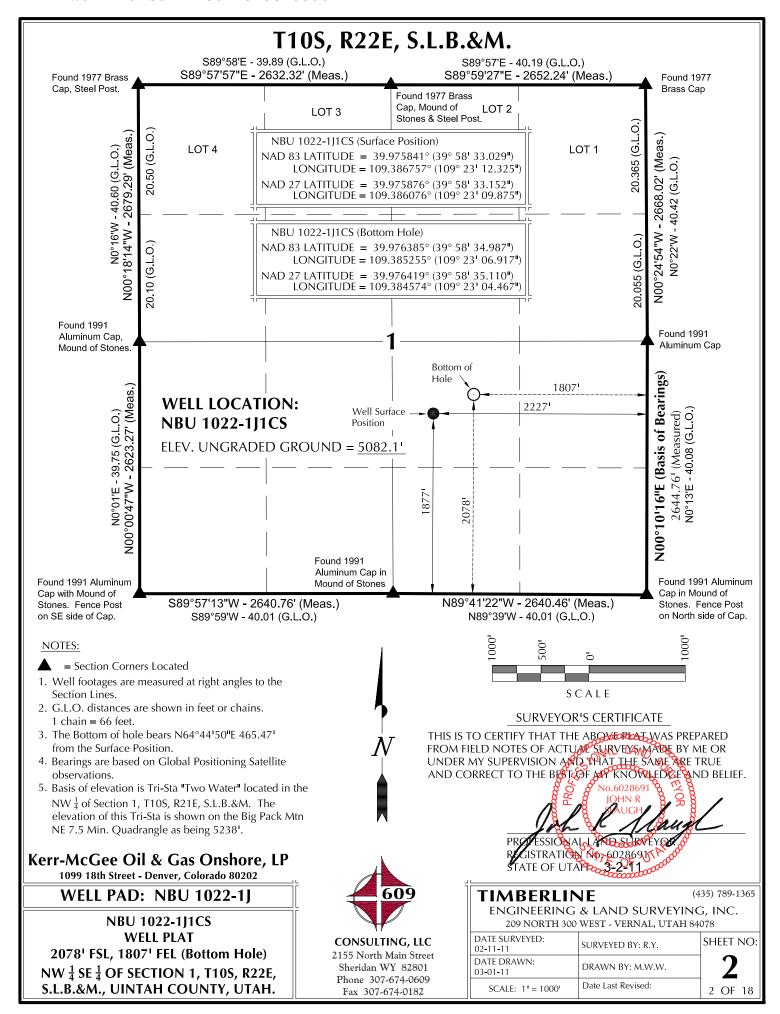
Kenny Gathings / Lovel Young

^{*}Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

EXHIBIT A
NBU 1022-1J1CS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK



SURFACE POSIT					ION					вот	TTOM HOLE		
WELL NAME	NAI		IDE LATITU	NAD27 LATITUDE LONGITUDE FOOTAGE		FOOTAGE		NAD83 LATITUDE LONGITUDE		\F	NAD	FOOTAGES	
NBU	LATITUDE 39°58'33.126"	109°23'12.			111UDE 109.854"	1887' FSL	39°58'3		109°23'06.9		LATITUDE 9°58'38.390"	LONGITUDE 109°23'04.450"	2410' FSL
1022-1J1BS	39.975868°	109.38675	1° 39.97590	3° 109.38	6071°	2226¹ FEL	39.977	296°	109.385250°	39	9.977331°	109.384570°	1807' FEL
NBU 1022-1J1CS	39°58'33.029" 39.975841°	109°23'12. 109.38675			'09.875" 6076°	1877' FSL 2227' FEL	39°58'3 39.976		109°23'06.9 109.385255°		9°58'35.110" 9.976419°	109°23'04.467" 109.384574°	2078' FSL 1807' FEL
NBU	39°58'32.931" 39.975814°	109°23'12.			'09.896"	1867' FSL	39°58'3		109°23'07.1	- 1		109°23'04.688"	1761' FSL
1022-1J4BS NBU	39°58'32.834"	109.38676. 109°23'12.			09.917	2229' FEL 1857' FSL	39.973 39°58'2		109.385316° 109°23'06.9	_	9.975550° 9°58'28.540"	109.384636° 109°23'04.474"	1823' FEL 1413' FSL
1022-1J4CS NBU	39.975787° 39°58'32.736"	109.386769 109°23'12.			6088° '09.937"	2231 ¹ FEL 1847 ¹ FSL	39.974 39°58'2		109.385257° 109°23'06.9	_	9.974594° 9°58'25.260"	109.384576° 109°23'04.491"	1805' FEL 1081' FSL
1022-1O1BS	39.975760°	109.38677	4° 39.97579	4° 109.38		2232 FEL	39.973	649°	109.385261°	39	9.973683°	109.384581°	1805' FEL
NBU 1022-104BS	39°58'32.639" 39.975733°	109°23'12. 109.38678			'09.958" 6099°	1838' FSL 2234' FEL	39°58'1 39.971		109°23'06.9 109.385267°			109°23'04.511" 109.384586°	417' FSL 1804' FEL
1022 10120		1103.30070		TIVE COORD								103.301300	1001 122
WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAS		L NAME	NOR	TH EAS	ST	WELL NAM	E NORTH	EAST
NBU 1022-1J1BS	520.7'	420.41	NBU 1022-1J1CS	198.6'	421.0	□ 1022	11/DC	-108	3.41 405	.7'	NBU 1022-1J4CS	-446.7'	424.21
WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAS	Г	1	1			1 1	1	
NBU 1022-101BS	-768.8'	424.81	NBU 1022-104BS	-1,423.0	425.5	5'	, % .	/			-20		
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S.	.L.B.&M. WHI	CH IS TAK	EN FROM	j		(To Bottom Hole)	3.35444° 1485.28	55/18/E Hole	, 2 ¹ 8'	•	Jol 1.03		
	GLOBAL POSIT OBSERVATION			F . /)(e)	85. °	32	818.35		Ø (3)		
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	IBU 1022-1J1 1022-1J4BS,					JLTING, L		DATI 02-1	E SURVEYED: 1-11		SURVEYED B'	Y: R.Y.	SHEET NO:
	022-101BS &		- '			rth Main St in WY 828		DATI	E DRAWN:		DRAWN BY:	M W W	7
	TED IN SECTI					in W 1 8281 307-674-06		03-0					/
S.L.B.&	km., UINTAH	COUNT	Y, UTAH.		Fax 3	07-674-018	2	S	CALE: 1" = 60		Date Last Rev	iscu.	7 OF 18

EXISTING GRADE @ CENTER OF WELL PAD = 5082.7'
FINISHED GRADE ELEVATION = 5076.8'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1
TOTAL WELL PAD AREA = 3.32 ACRES
TOTAL DISTURBANCE AREA = 4.62 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00

Kerr-McGee Oil & Gas Onshore, LP

1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 1022-1J

WELL PAD - LOCATION LAYOUT NBU 1022-1J1BS, NBU 1022-1J1CS, NBU 1022-1J4BS, NBU 1022-1J4CS, NBU 1022-1O1BS & NBU 1022-1O4BS LOCATED IN SECTION 1, T10S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH



2155 North Main Street

Sheridan, WY 82801

Phone 307-674-0609 Fax 307-674-0182

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 16,466 C.Y. TOTAL FILL FOR WELL PAD = 13,209 C.Y. TOPSOIL @ 6" DEPTH = 2,680 C.Y. EXCESS MATERIAL = 3,257 C.Y.

RESERVE PIT QUANTITIES

TOTAL CUT FOR RESERVE PIT +/- 8,870 C.Y.
RESERVE PIT CAPACITY (2' OF FREEBOARD) +/- 33,770 BARRELS

TIMBERLINE (435) 789-1365 ENGINEERING & LAND SURVEYING, INC. 209 NORTH 300 WEST - VERNAL, UTAH 84078

WELL PAD LEGEND EXISTING WELL LOCATION PROPOSED WELL LOCATION PROPOSED BOTTOM HOLE LOCATION EXISTING CONTOURS (2' INTERVAL) PROPOSED CONTOURS (2' INTERVAL) PROPOSED PIPELINE EPL EXISTING PIPELINE O 30' 60' 1" = 60' 2' CONTOURS SCALE: 1"=60' DATE: 5/13/11 SHEET NO:

APF 12/7/11

8

8 OF 18

REVISED:

EXISTING GRADE @ CENTER OF WELL PAD = 5082.7¹ FINISHED GRADE ELEVATION = 5076.8¹ CUT SLOPES = 1.5:1 FILL SLOPES = 1.5:1 TOTAL WELL PAD AREA = 3.32 ACRES TOTAL DISTURBANCE AREA = 4.62 ACRES SHRINKAGE FACTOR = 1.10 SWELL FACTOR = 1.00

Kerr-McGee Oil & Gas Onshore, LP

1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 1022-1J

WELL PAD - LOCATION LAYOUT NBU 1022-1J1BS, NBU 1022-1J1CS, NBU 1022-1J4BS, NBU 1022-1J4CS, NBU 1022-1O1BS & NBU 1022-1O4BS LOCATED IN SECTION 1, T10S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH



2155 North Main Street

Sheridan, WY 82801

Phone 307-674-0609 Fax 307-674-0182

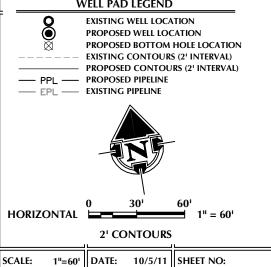
WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 16,466 C.Y. TOTAL FILL FOR WELL PAD = 13,209 C.Y. TOPSOIL @ 6" DEPTH = 2,680 C.Y. EXCESS MATERIAL = 3,257 C.Y.

COMPLETIONS PIT QUANTITIES

TOTAL CUT FOR COMPLETIONS PIT +/- 6,720 C.Y.
COMPLETIONS PIT CAPACITY
(2' OF FREEBOARD)
+/- 25,260 BARRELS

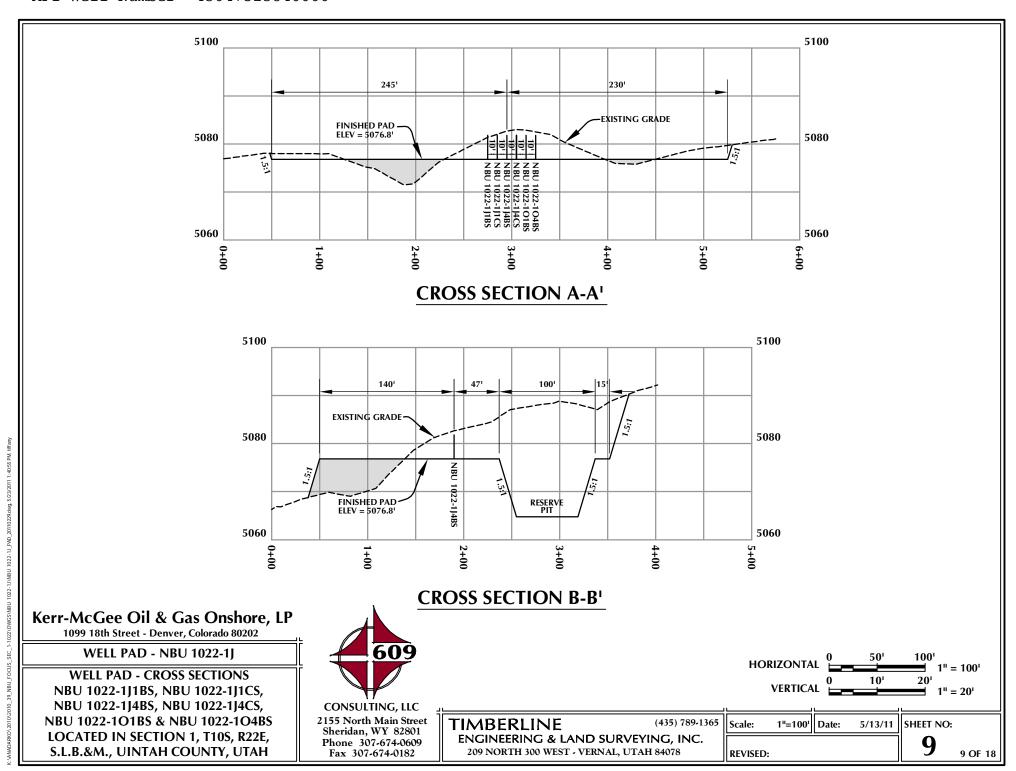
TIMBERLINE (435) 789-1365 ENGINEERING & LAND SURVEYING, INC. 209 NORTH 300 WEST - VERNAL, UTAH 84078



JFE 11/14/11 $8B_{8BOF18}$

RECEIVED: February 02, 2012

REVISED:



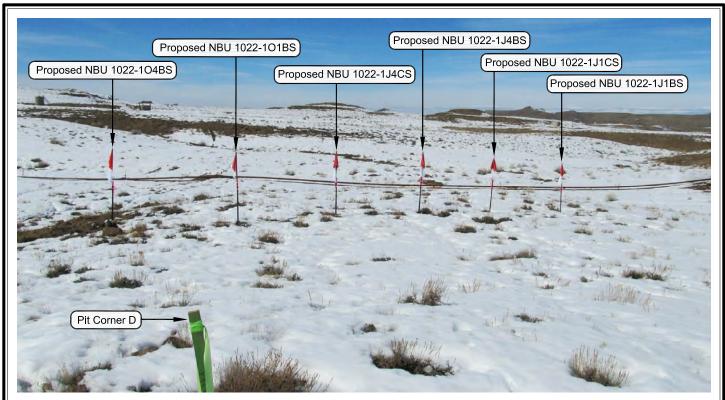


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY



PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: SOUTHWESTERLY

Kerr-McGee Oil & Gas Onshore, LP

WELL PAD - NBU 1022-1J

LOCATION PHOTOS

NBU 1022-1J1BS, NBU 1022-1J1CS,

NBU 1022-1J4BS, NBU 1022-1J4CS,

NBU 1022-1O1BS & NBU 1022-1O4BS

LOCATED IN SECTION 1, T10S, R22E,

S.L.B.&M., UINTAH COUNTY, UTAH.



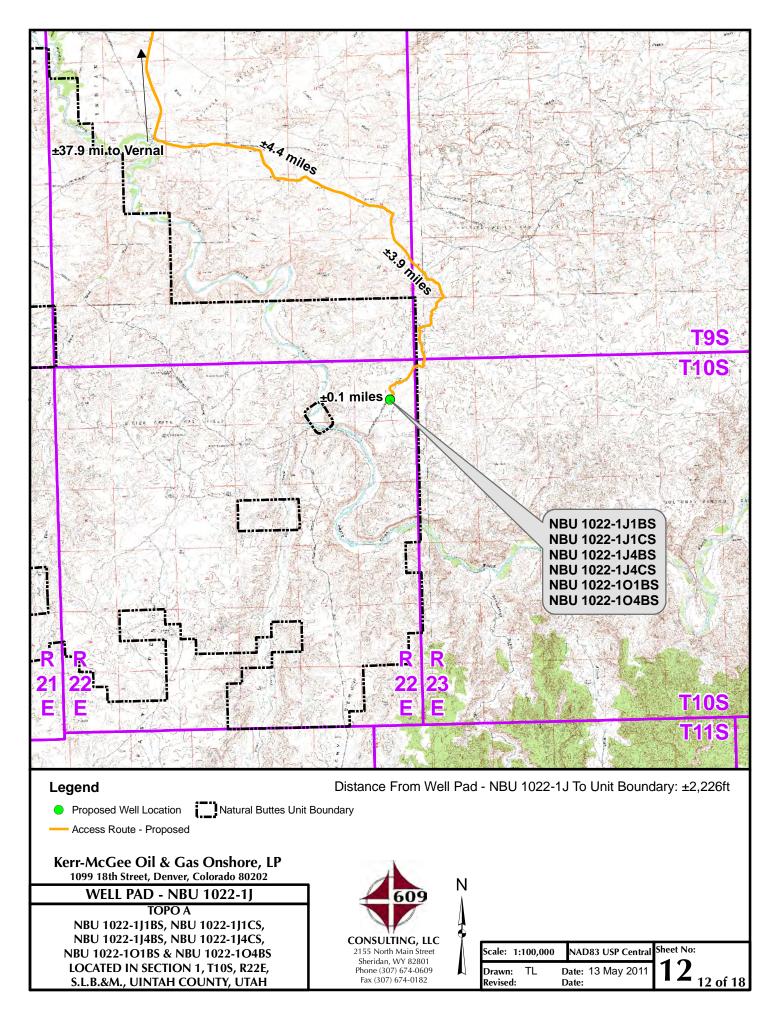
CONSULTING, LLC 2155 North Main Street Sheridan WY 82801 Phone 307-674-0609 Fax 307-674-0182

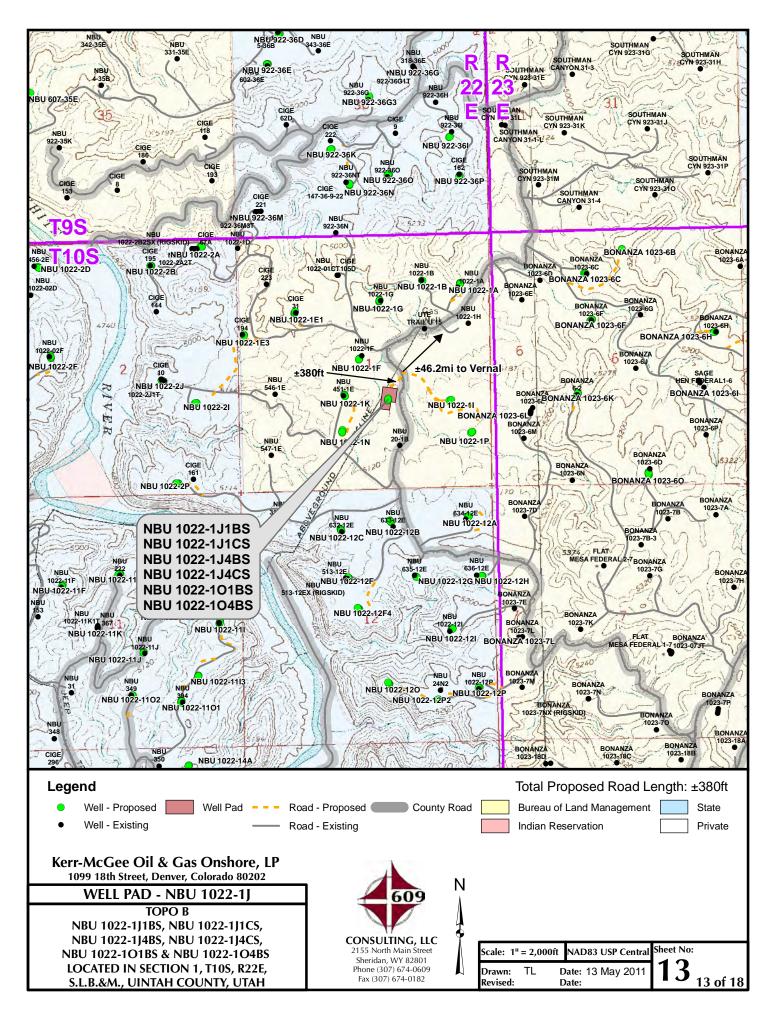
TIMBERLINE

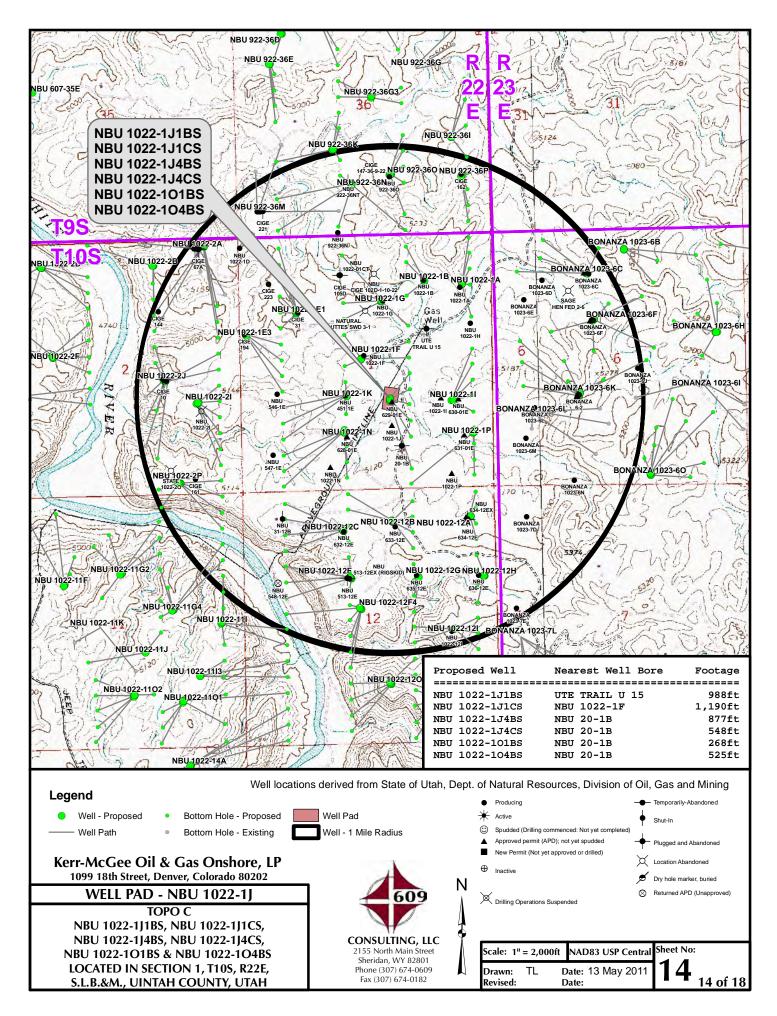
(435) 789-1365

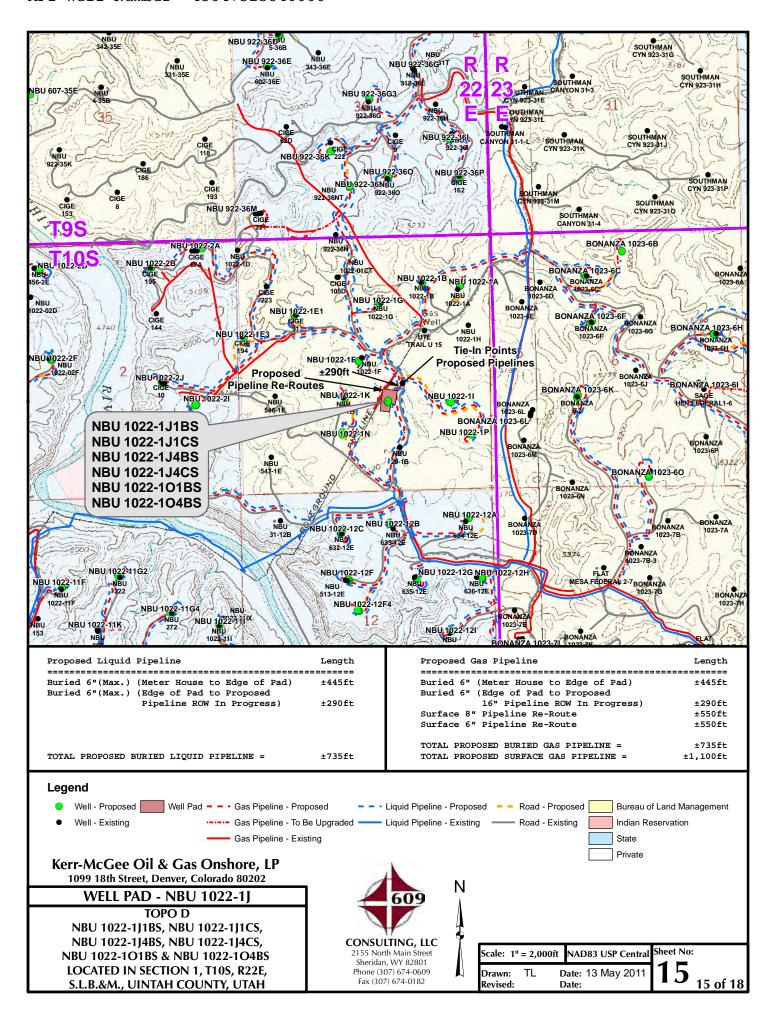
ENGINEERING & LAND SURVEYING, INC. 209 NORTH 300 WEST - VERNAL, UTAH 84078

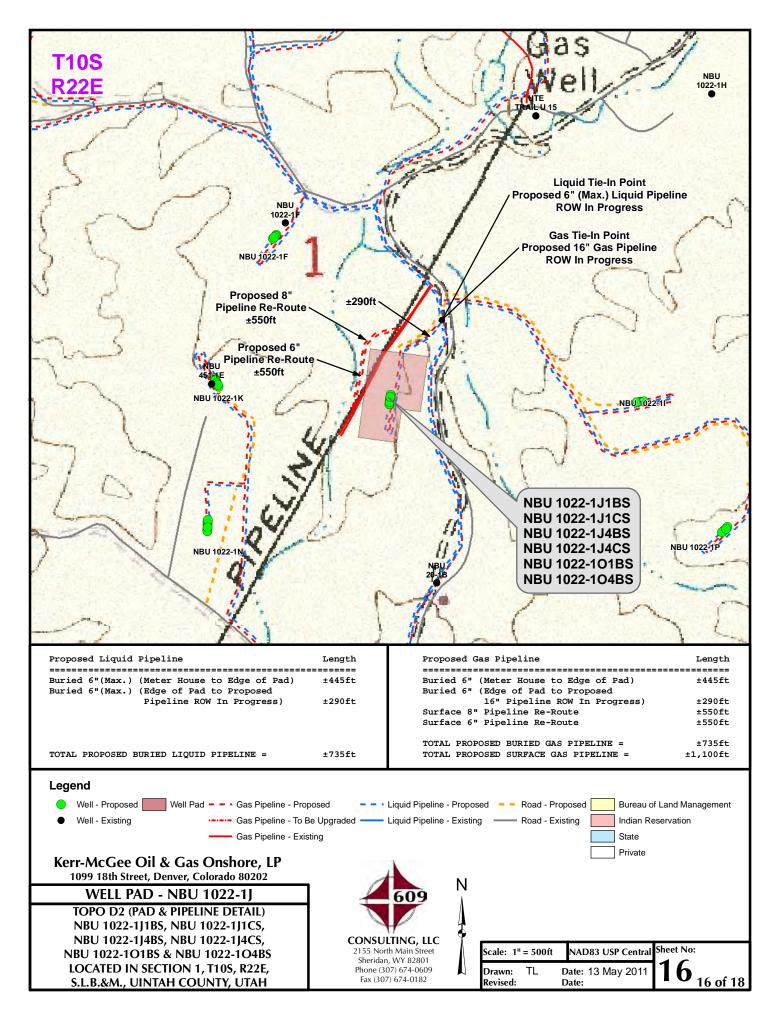
DATE PHOTOS TAKEN: 02-28-11	PHOTOS TAKEN BY: M.S.B.	SHEET NO:
DATE DRAWN: 03-01-11	DRAWN BY: M.W.W.	11
Date Last Revised:		11 OF 18

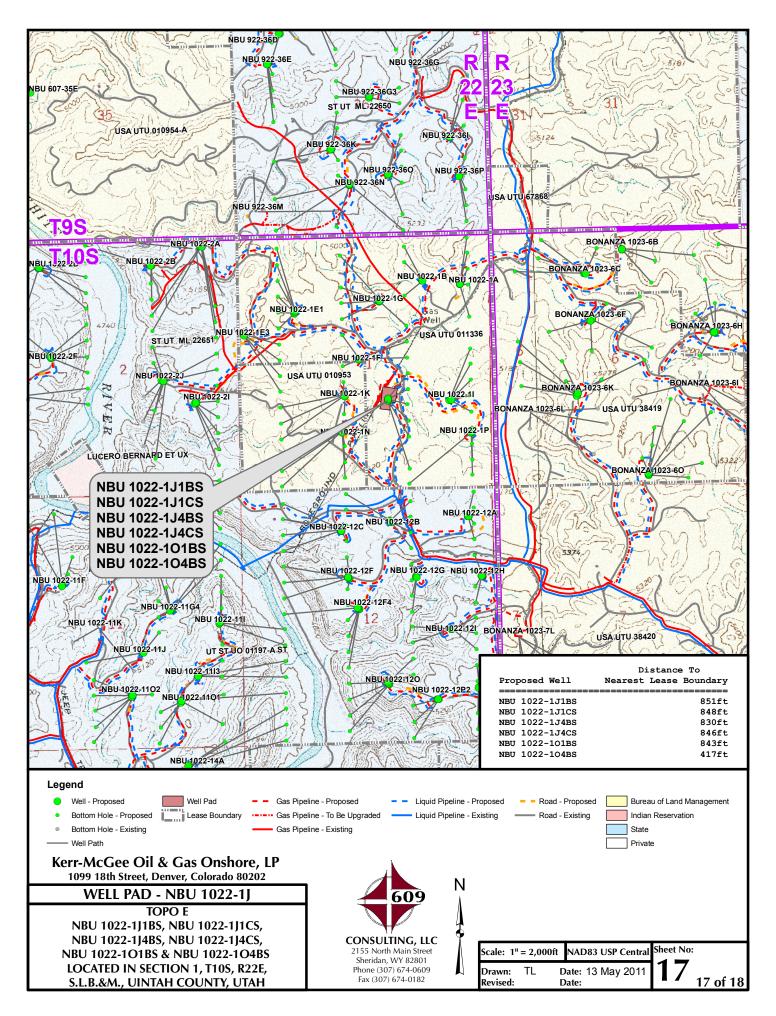












Kerr-McGee Oil & Gas Onshore, LP WELL PAD – NBU 1022-1J WELLS – NBU 1022-1J1BS, NBU 1022-1J1CS, NBU 1022-1J4BS, NBU 1022-1J4CS, NBU 1022-1O1BS & NBU 1022-1O4BS Section 1, T10S, R22E, S.L.B.&M.

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly, then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45. Exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 14.4 miles to the intersection of the Fidlar Road (County B Road 3410) which road intersection is approximately 400 feet northeast of the Mountain Fuel Bridge at the White River. Exit left and proceed in a southeasterly direction along the Fidlar Road approximately 4.4 miles to the intersection of the Seven Sisters Road (County B Road 3420). Exit right and proceed in a southeasterly, then southerly direction along the Seven Sisters Road approximately 3.9 miles to the proposed access road to the southwest. Follow road flags in a southwesterly direction approximately 380 feet to the proposed well pad.

Total distance from Vernal, Utah to the proposed well location is approximately 46.3 miles in a southerly direction.

SHEET 18 OF 18

API Well Number: 43047 520368 0007000 - UTM (feet), NAD27, Zone 12N

Scientific Drilling

Rocky Mountain Operations

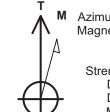
Vertical Section at 64.83° (1500 ft/in)

Site: NBU 1022-1J PAD Well: NBU 1022-1J1CS

Wellbore: OH

Design: PLAN #1 PRELIMINARY





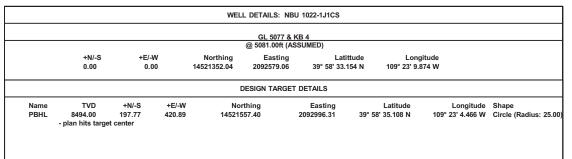
Created By: RobertScott

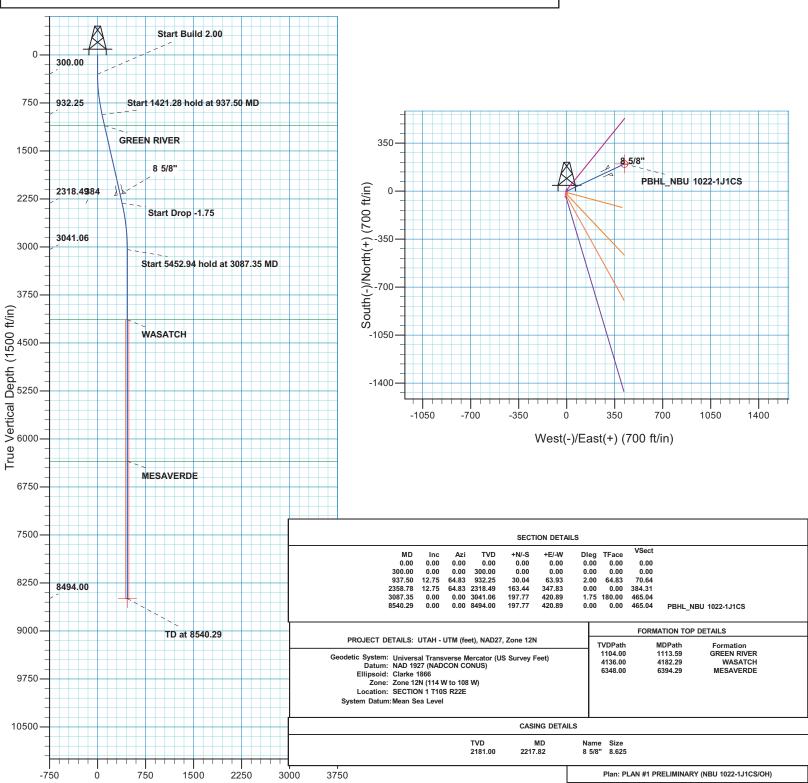
RECEIVED:

Date: 13:36, August 22 2011

Azimuths to True North Magnetic North: 11.00°

Magnetic Field Strength: 52312.4snT Dip Angle: 65.87° Date: 08/22/2011 Model: IGRF2010







US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N NBU 1022-1J PAD NBU 1022-1J1CS

OH

Plan: PLAN #1 PRELIMINARY

Standard Planning Report

22 August, 2011





SDI Planning Report



EDM5000-RobertS-Local Database:

Company: US ROCKIES REGION PLANNING

TVD Reference:

Well NBU 1022-1J1CS GL 5077 & KB 4

MD Reference:

@ 5081.00ft (ASSUMED)

Project: UTAH - UTM (feet), NAD27, Zone 12N GL 5077 & KB 4

Site: NBU 1022-1J PAD

North Reference:

@ 5081.00ft (ASSUMED)

Well: NBU 1022-1J1CS **Survey Calculation Method:**

Local Co-ordinate Reference:

Minimum Curvature

Wellbore: ОН

Design: PLAN #1 PRELIMINARY

Project UTAH - UTM (feet), NAD27, Zone 12N

Map System:

Universal Transverse Mercator (US Survey Feet) System Datum: Mean Sea Level

NAD 1927 (NADCON CONUS) Geo Datum: Zone 12N (114 W to 108 W) Map Zone:

NBU 1022-1J PAD, SECTION 1 T10S R22E Site

Northing: 14,521,361.90 usft Site Position: Latitude: 39° 58' 33.251 N From: Lat/Long Easting: 2,092,580.28 usft Longitude: 109° 23' 9.856 W

0.00 ft Slot Radius: 13.200 in **Grid Convergence:** 1.04° **Position Uncertainty:**

Well NBU 1022-1J1CS, 1877 FSL 2227 FEL

Well Position -9.83 ft 14,521,352.05 usft 39° 58' 33.154 N +N/-S Northing: Latitude:

+E/-W -1.40 ft Easting: 2,092,579.06 usft Longitude: 109° 23' 9.874 W **Position Uncertainty** 0.00 ft Wellhead Elevation: **Ground Level:** 5.077.00 ft

Wellbore ОН Field Strength Magnetics **Model Name** Sample Date Declination Dip Angle (°) (°) (nT) IGRF2010 08/22/11 11.00 65.87 52,312

PLAN #1 PRELIMINARY Design **Audit Notes:** PLAN 0.00 Version: Phase: Tie On Depth: Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 64.83

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
937.50	12.75	64.83	932.25	30.04	63.93	2.00	2.00	0.00	64.83	
2,358.78	12.75	64.83	2,318.49	163.44	347.83	0.00	0.00	0.00	0.00	
3,087.35	0.00	0.00	3,041.06	197.77	420.89	1.75	-1.75	0.00	180.00	
8,540.29	0.00	0.00	8,494.00	197.77	420.89	0.00	0.00	0.00	0.00 1	PBHL_NBU 1022-1J1



SDI Planning Report



Database: EDM5000-RobertS-Local

Company: US ROCKIES REGION PLANNING

Project: UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 NBU 1022-1J PAD

 Well:
 NBU 1022-1J1CS

Wellbore: OH

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Well NBU 1022-1J1CS

GL 5077 & KB 4

@ 5081.00ft (ASSUMED)

GL 5077 & KB 4

@ 5081.00ft (ASSUMED)

True

Minimum Curvature

	FLAN#IFRE	Elivin v d Ci							
ed Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2									
400.00	2.00	64.83	399.98	0.74	1.58	1.75	2.00	2.00	0.00
500.00	4.00	64.83	499.84	2.97	6.32	6.98	2.00	2.00	0.00
600.00	6.00	64.83	599.45	6.67	14.20	15.69	2.00	2.00	0.00
700.00	8.00	64.83	698.70	11.86	25.23	27.88	2.00	2.00	0.00
800.00	10.00	64.83	797.47	18.51	39.39	43.52	2.00	2.00	0.00
900.00	12.00	64.83	895.62	26.62	56.66	62.60	2.00	2.00	0.00
937.50	12.75	64.83	932.25	30.04	63.93	70.64	2.00	2.00	0.00
Start 1421.28	3 hold at 937.50	MD							
1,000.00	12.75	64.83	993.21	35.91	76.42	84.43	0.00	0.00	0.00
1,100.00	12.75	64.83	1,090.74	45.29	96.39	106.50	0.00	0.00	0.00
1,113.59	12.75	64.83	1,104.00	46.57	99.11	109.50	0.00	0.00	0.00
GREEN RIVE									
1,200.00	12.75	64.83	1,188.28	54.68	116.37	128.57	0.00	0.00	0.00
1,300.00	12.75	64.83	1,285.81	64.07	136.34	150.64	0.00	0.00	0.00
1,400.00	12.75	64.83	1,383.35	73.45	156.31	172.71	0.00	0.00	0.00
1,500.00	12.75	64.83	1,480.88	82.84	176.29	194.78	0.00	0.00	0.00
1,600.00	12.75	64.83	1,578.42	92.22	196.26	216.85	0.00	0.00	0.00
1,700.00	12.75	64.83	1,675.95	101.61	216.24	238.92	0.00	0.00	0.00
1,700.00		04.03	1,073.93	101.01					
1,800.00	12.75	64.83	1,773.48	110.99	236.21	260.99	0.00	0.00	0.00
1,900.00	12.75	64.83	1,871.02	120.38	256.19	283.06	0.00	0.00	0.00
2,000.00	12.75	64.83	1,968.55	129.77	276.16	305.13	0.00	0.00	0.00
2,100.00	12.75	64.83	2,066.09	139.15	296.14	327.20	0.00	0.00	0.00
2,200.00	12.75	64.83	2,163.62	148.54	316.11	349.27	0.00	0.00	0.00
2,217.82	12.75	64.83	2,181.00	150.21	319.67	353.20	0.00	0.00	0.00
8 5/8"									
2,300.00	12.75	64.83	2,261.16	157.92	336.08	371.34	0.00	0.00	0.00
2,358.78	12.75	64.83	2,318.49	163.44	347.83	384.31	0.00	0.00	0.00
Start Drop -1	.75								
2,400.00	12.03	64.83	2,358.75	167.20	355.83	393.16	1.75	-1.75	0.00
2,500.00	10.28	64.83	2,456.85	175.43	373.34	412.50	1.75	-1.75	0.00
2,600.00	8.53	64.83	2,555.51	182.38	388.12	428.84	1.75	-1.75	0.00
2,700.00	6.78	64.83	2,654.61	188.04	400.18	420.04 442.16	1.75	-1.75 -1.75	0.00
2,700.00	5.03	64.83	2,054.01	192.41	400.16	442.16 452.44	1.75	-1.75 -1.75	0.00
		64.83	2,853.81		416.04				0.00
2,900.00 3,000.00	3.28 1.53	64.83	2,953.72	195.49 197.28	419.84	459.68 463.88	1.75 1.75	-1.75 -1.75	0.00
3,087.35	0.00	0.00	3,041.06	197.77	420.89	465.04	1.75	-1.75	0.00
	4 hold at 3087.35		0.050.74	407.77	400.00	405.04	0.00	0.00	0.00
3,100.00	0.00	0.00	3,053.71	197.77	420.89	465.04	0.00	0.00	0.00
3,200.00	0.00	0.00	3,153.71	197.77	420.89	465.04	0.00	0.00	0.00
3,300.00	0.00	0.00	3,253.71	197.77	420.89	465.04	0.00	0.00	0.00
3,400.00	0.00	0.00	3,353.71	197.77	420.89	465.04	0.00	0.00	0.00
3,500.00	0.00	0.00	3,453.71	197.77	420.89	465.04	0.00	0.00	0.00
3,600.00	0.00	0.00	3,553.71	197.77	420.89	465.04	0.00	0.00	0.00
3,700.00	0.00	0.00	3,653.71	197.77	420.89	465.04	0.00	0.00	0.00
3,800.00	0.00	0.00	3,753.71	197.77	420.89	465.04	0.00	0.00	0.00
3,900.00	0.00	0.00	3,853.71	197.77	420.89	465.04	0.00	0.00	0.00



Company:

SDI Planning Report



EDM5000-RobertS-Local Database:

US ROCKIES REGION PLANNING

Project: UTAH - UTM (feet), NAD27, Zone 12N

Site: NBU 1022-1J PAD Well: NBU 1022-1J1CS

Wellbore: ОН

Design: PLAN #1 PRELIMINARY Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Well NBU 1022-1J1CS

GL 5077 & KB 4

@ 5081.00ft (ASSUMED)

GL 5077 & KB 4

@ 5081.00ft (ASSUMED)

True

Minimum Curvature

PLAN # PRELIMINAR													
Vertical imuth Depth (°) (ft)		+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)							
0.00 3,953	3.71 197.77	420.89	465.04	0.00	0.00	0.00							
0.00 4,053	3.71 197.77	420.89	465.04	0.00	0.00	0.00							
0.00 4,136	3.00 197.77	420.89	465.04	0.00	0.00	0.00							
0.00 4,153	3.71 197.77	420.89	465.04	0.00	0.00	0.00							
0.00 4,253	3.71 197.77	420.89	465.04	0.00	0.00	0.00							
0.00 4,353	3.71 197.77	420.89	465.04	0.00	0.00	0.00							
0.00 4,453		420.89	465.04	0.00	0.00	0.00							
0.00 4,553		420.89	465.04	0.00	0.00	0.00							
0.00 4,653		420.89	465.04	0.00	0.00	0.00							
0.00 4,753		420.89	465.04	0.00	0.00	0.00							
0.00 4,853		420.89	465.04	0.00	0.00	0.00							
0.00 4,953		420.89	465.04	0.00	0.00	0.00							
0.00 5,053		420.89	465.04	0.00	0.00	0.00							
0.00 5,153		420.89	465.04	0.00	0.00	0.00							
0.00 5,253	3.71 197.77	420.89	465.04	0.00	0.00	0.00							
0.00 5,353	3.71 197.77	420.89	465.04	0.00	0.00	0.00							
0.00 5,453	3.71 197.77	420.89	465.04	0.00	0.00	0.00							
0.00 5,553	3.71 197.77	420.89	465.04	0.00	0.00	0.00							
0.00 5,653	3.71 197.77	420.89	465.04	0.00	0.00	0.00							
0.00 5,753	3.71 197.77	420.89	465.04	0.00	0.00	0.00							
0.00 5,853	3.71 197.77	420.89	465.04	0.00	0.00	0.00							
0.00 5,953		420.89	465.04	0.00	0.00	0.00							
0.00 6,053		420.89	465.04	0.00	0.00	0.00							
0.00 6,153		420.89	465.04	0.00	0.00	0.00							
0.00 6,253		420.89	465.04	0.00	0.00	0.00							
0.00 6,348	3.00 197.77	420.89	465.04	0.00	0.00	0.00							
0.00 0.050	107.77	400.00	405.04	0.00	0.00	0.00							
0.00 6,353 0.00 6,453		420.89 420.89	465.04 465.04	0.00	0.00 0.00	0.00 0.00							
0.00 6,453 0.00 6,553		420.89	465.04 465.04	0.00 0.00	0.00	0.00							
0.00 6,653		420.89	465.04	0.00	0.00	0.00							
		420.09		0.00		0.00							
0.00 6,753		420.89	465.04	0.00	0.00	0.00							
0.00 6,853		420.89	465.04	0.00	0.00	0.00							
0.00 6,953		420.89	465.04	0.00	0.00	0.00							
0.00 7,053		420.89	465.04	0.00	0.00	0.00							
0.00 7,153	3.71 197.77	420.89	465.04	0.00	0.00	0.00							
0.00 7,253	3.71 197.77	420.89	465.04	0.00	0.00	0.00							
0.00 7,353		420.89	465.04	0.00	0.00	0.00							
0.00 7,453		420.89	465.04	0.00	0.00	0.00							
0.00 7,553		420.89	465.04	0.00	0.00	0.00							
0.00 7,653	3.71 197.77	420.89	465.04	0.00	0.00	0.00							
0.00 7,753		420.89	465.04	0.00	0.00	0.00							
0.00 7,753		420.89 420.89	465.04 465.04	0.00	0.00	0.00							
0.00 7,053		420.89	465.04 465.04	0.00	0.00	0.00							
0.00 7,953		420.89	465.04 465.04	0.00	0.00	0.00							
0.00 8,153		420.89	465.04 465.04	0.00	0.00	0.00							
0.00 8,253		420.89	465.04	0.00	0.00	0.00							
0.00 8,353		420.89	465.04	0.00	0.00	0.00							
0.00 8,453		420.89	465.04	0.00	0.00	0.00							
0.00 8,494	1.00 197.77	420.89	465.04	0.00	0.00	0.00							



SDI Planning Report



Database: Company: EDM5000-RobertS-Local

US ROCKIES REGION PLANNING

Project:

UTAH - UTM (feet), NAD27, Zone 12N

Site: Well: NBU 1022-1J PAD

Wellbore:

NBU 1022-1J1CS

Design:

PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

Survey Calculation Method:

TVD Reference:

MD Reference:

North Reference:

Well NBU 1022-1J1CS GL 5077 & KB 4

@ 5081.00ft (ASSUMED)

GL 5077 & KB 4

@ 5081.00ft (ASSUMED)

Minimum Curvature

Planned Survey

Measured Depth Inclination (ft)

(°)

Azimuth (°)

Vertical Depth (ft)

+N/-S (ft)

+E/-W (ft)

Vertical Section (ft)

Dogleg Rate (°/100ft)

Build Rate (°/100ft)

Turn Rate (°/100ft)

Design Targets

Target Name

- Shape

- hit/miss target

PBHL_NBU 1022-1J1C5

Dip Angle (°)

Dip Dir. (°)

(ft) 0.00 8,494.00

WASATCH

MESAVERDE

197.77

197.77

TVD

(ft) 197.77

Name

+N/-S

(ft) 420.89

+E/-W

(usft) 14,521,557.40

Northing

2,092,996.30

Easting

(usft)

Latitude 39° 58' 35.108 N

Longitude 109° 23' 4.466 W

- plan hits target center - Circle (radius 25.00)

Casing Points

Measured Vertical Depth Depth (ft) (ft)

0.00

2,217.82 2,181.00 8 5/8" Name

Lithology

Start 5452.94 hold at 3087.35 MD

Casing Diameter (in)

8.625

Dip

(°)

Hole Diameter (in)

Dip

Direction

(°)

11.000

Formations

Measured Vertical Depth Depth (ft) (ft) 1,113.59 1,104.00 **GREEN RIVER**

3,041.06

8,494.00

4,182.29 4,136.00 6,394.29 6,348.00

Plan Annotations

Measured

Depth

(ft)

300.00

937.50

2,358.78

3,087.35

8,540.29

Vertical **Local Coordinates** Depth +N/-S +E/-W (ft) (ft) (ft) Comment 300.00 0.00 0.00 Start Build 2.00 932.25 30.04 63.93 Start 1421.28 hold at 937.50 MD 2,318.49 163.44 347.83 Start Drop -1.75

TD at 8540.29

08/22/11 1:27:41PM Page 5 COMPASS 5000.1 Build 40

420.89

420.89

NBU 1022-1J1BS / 1022-1J1CS / 1022-1J4BS 1022-1J4CS / 1022-1O1BS / 1022-1O4BS

NBU 1022-1J Pad Surface Use Plan of Operations 1 of 14

Kerr-McGee Oil & Gas Onshore. L.P.

NBU 1022-1J Pad

<u>API #</u>	NBU 1022-1J1BS				
	Surface:	1887 FSL / 2226 FEL	NWSE	Lot	
	BHL:	2410 FSL / 1807 FEL	NWSE	Lot	
<u>API #</u>	NBU 1022-1J1CS				
	Surface:	1877 FSL / 2227 FEL	NWSE	Lot	
	BHL:	2078 FSL / 1807 FEL	NWSE	Lot	
API #4304739312	NBU 1022-1J4BS (fka NBU 629-01E)				
	Surface:	1867 FSL / 2229 FEL	NWSE	Lot	
	BHL:	1761 FSL / 1823 FEL	NWSE	Lot	
<u>API #</u>	NBU 1022-1J4CS				
	Surface:	1857 FSL / 2231 FEL	NWSE	Lot	
	BHL:	1413 FSL / 1805 FEL	NWSE	Lot	
<u>API #</u>	NBU 1022-1O1BS				
	Surface:	1847 FSL / 2232 FEL	NWSE	Lot	
	BHL:	1081 FSL / 1805 FEL	SWSE	Lot	
<u>API #</u> NBU 1022-1O4BS					
	Surface:	1838 FSL / 2234 FEL	NWSE	Lot	
	BHL:	417 FSL / 1804 FEL	SWSE	Lot	
				= 3 (

An Application for Permit to Drill (APD) was approved by the BLM on January 12, 2009 for the NBU 629-01E well location. A Sundry Notice under separate cover will be submitted to change the location and the well name to the NBU 1022-1J4BS.

This Surface Use Plan of Operations (SUPO) or 13-point plan provides site-specific information for the above-referenced wells.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

A. Existing Roads:

Existing roads consist of county and improved/unimproved access roads (two-tracks). In accordance with Onshore Order #1, Kerr-McGee will, in accordance with BMPs, improve or maintain existing roads in a condition that is the same as or better than before operations began. New or reconstructed proposed access roads are discussed in Section B.

The existing roads will be maintained in a safe and usable condition. Maintenance for existing roads will continue until final abandonment and reclamation of well pads and/or other facilities, as applicable. Road maintenance will include, but is not limited to, blading, ditching, and/or culvert installation and cleanout. To ensure safe operating

NBU 1022-1J1BS / 1022-1J1CS / 1022-1J4BS 1022-1J4CS / 1022-1O1BS / 1022-1O4BS

NBU 1022-1J Pad Surface Use Plan of Operations 2 of 14

conditions, gravel surfacing will be performed where excessive rutting or erosion may occur. Dust control will be performed as necessary to ensure safe operating conditions.

Roads, gathering lines and electrical distribution lines will occupy common disturbance corridors where possible. Where available, roadways will be used as the staging area and working space for installation of gathering lines. All disturbances located in the same corridor will overlap each other to the maximum extent possible, while maintaining safe and sound construction and installation practices. Unless otherwise approved or requested in site specific documents, in no case will the maximum disturbance widths of the access road and utility corridors exceed the widths specified in Part D of this document.

Please refer to Topo B, for existing roads.

B. New or Reconstructed Access Roads:

All new or reconstructed roads will be located, designed, and maintained to meet the standards of the BLM. BMPs. Described in the BLM's Surface Operating Standards for Oil and Gas Exploration and Development, 4th Edition (Gold Book) (USDI and USDA, 2007) and/or BLM Manual Section 9113 (1985) will be considered in consultation with the BLM in the design, construction, improvement and maintenance of all new or reconstructed roads. If a new road would cross a water of the United States, Kerr-McGee will adhere to the requirements of applicable Nationwide Permits of the Department of Army Corps of Engineers.

Each new well pad or pad expansion may require construction of a new access road and/or de-commissioning of an older road. Plans, routes, and distances for new roads and road improvements are provided in design packages, exhibits and maps for a project. Project-specific maps are submitted to depict the locations of existing, proposed, and/or decommissioned and include the locations for supporting structures, including, but not limited to, culverts, bridges, low water crossings, range infrastructure, and haul routes, as per OSO 1. Designs for cuts and fills, including spoils source and storage areas, are provided with the road designs, as necessary.

Where safety objectives can be met. As applicable, Kerr-McGee may use unimproved and/or two-track roads for lease operations, to lessen total disturbance.

Road designs will be based on the road safety requirements, traffic characteristics, environmental conditions, and the vehicles the road is intended to carry. Generally, newly constructed unpaved lease roads will be crowned and ditched with the running surfaces of the roads approximately 12-18 feet wide and a total road corridor width not to exceed 45 feet, except where noted in the road design for a specific project. Maximum grade will generally not exceed 8%. Borrow ditches will be back sloped 3:1 or less. Construction BMPs will be employed to control onsite and offsite erosion.

Where topography would direct storm water runoff to an access road or well pad, drainage ditches or other common drainage control facilities, such as V- or wing-ditches, will be constructed to divert surface water runoff. Drainage features, including culverts, will be constructed or installed prior to commencing other operations, including drilling or facilities placement. Riprap will be placed at the inlet and outlet at the culvert(s), as necessary.

Prior to construction, new access road(s) will be staked according to the requirements of OSO 1. Construction activity will not be conducted using frozen or saturated materials or during periods when significant watershed damage (e.g. rutting, extensive sheet soil erosion, formation of rills/gullies, etc.) is likely to occur. Vegetative debris will not be placed in or under fill embankments.

NBU 1022-1J1BS / 1022-1J1CS / 1022-1J4BS 1022-1J4CS / 1022-1O1BS / 1022-1O4BS

NBU 1022-1J Pad Surface Use Plan of Operations 3 of 14

New road maintenance will include, but is not limited to, blading, ditching, culvert installation and cleanout, gravel surfacing where excessive rutting or erosion may occur and dust control, as necessary to ensure safe operating conditions. All vehicular traffic, personnel movement, construction/restoration operations will be confined to the approved area and to existing roadways and/or access routes.

Snow removal will be conducted on an as-needed basis to accommodate safe travel. Snow removal will occur as necessary throughout the year, as will necessary drainage ditch construction. Removed snow may be stored on permitted well pads to reduce hauling distances and/or at the aerial extent of approved disturbance boundaries to facilitate snow removal for the remainder of the season.

If a county road crossing or encroachment permit is needed, it will be obtained prior to construction.

The following segments are "on-lease"

 $\pm 380'$ (0.1 miles) – Section 1 T10S R22E (NW/4 SE/4) – On-lease UTU011336, new access road from the edge of the pad to the existing road. Please refer to Topo B.

C. Location of Existing Wells:

A) Refer to Topo Map C.

D. Location of Existing and/or Proposed Facilities:

Should the well(s) prove productive, production facilities will be installed on the disturbed portion of each well pad. A berm will be constructed completely around production components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks). The berms will generally be constructed of compacted subsoil or corrugated metal, and will hold the capacity of the largest tank and have sufficient freeboard to accommodate a 25 year rainfall event. This includes pumping units. Aboveground structures constructed or installed onsite for 6 months or longer, will be painted a flat, non-reflective, earth-tone color chosen at the onsite in coordination with the BLM (typically Shadow Gray). A production facility layout is provided as part of a project-specific APD, ROW or NOS submission.

GAS GATHERING

Please refer to Exhibit A and Topo D- Pad and Pipeline Detail.

The gas gathering pipeline material: Steel line pipe. Surface = Bare pipe. Buried = Coated with fusion bonded epoxy coating (or equivalent).

Kerr-McGee proposes to install gas gathering lines to tie into a previously approved buried gas pipeline covered under ROW UTU-88692. The total of this proposed gas gathering from the meter to the approved 16" gas pipeline is ± 735 '. There will also be $\pm 1,100$ ' of surface gas pipeline that will be re-routed and will tie into an existing gas pipeline. The individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

±445' (0.1 miles) – Section 1 T10S R22E (NW/4 SE/4) – On-lease UTU011336, BLM surface, New 6" buried gas gathering pipeline from the meter to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.

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NBU 1022-1J Pad Surface Use Plan of Operations 4 of 14

- ±290' (0.05 miles) Section 1 T10S R22E (NW/4 SE/4) On-lease UTU011336, BLM surface, New 6' buried gas gathering pipeline from the edge of the pad to the tie-in at the previously approved 16" gas gathering pipeline. Please refer to Exhibit A, Line 7.
- ±550' (0.2 miles) Section 1 T10S R22E (NW/4 SE/4) On-lease UTU011336, BLM surface, Re-routed 8" surface gas gathering pipeline from the edge of the pad to an existing gas pipeline. Please refer to Topo D2 Pad and Pipeline Detail.
- ±550' (0.2 miles) Section 1 T10S R22E (NW/4 SE/4) On-lease UTU011336, BLM surface, Re-routed 6" surface gas gathering pipeline from the edge of the pad to an existing gas pipeline. Please refer to Topo D2 Pad and Pipeline Detail.

Kerr-McGee proposes to install liquid gathering lines to tie into a previously approved buried liquid pipeline covered under ROW UTU-88691. The total of this proposed liquid gathering from the separator to the approved liquid pipeline is $\pm 735'$ and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

- ±445' (0.1 miles) Section 1 T10S R22E (NW/4 SE/4) On-lease UTU011336, BLM surface, New 6" buried liquid gathering pipeline from the separator to the edge of the pad. Please refer to Topo D2 Pad and Pipeline Detail.
- ±290' (0.05 miles) Section 1 T10S R22E (NW/4 SE/4) On-lease UTU011336, BLM surface, New 6" buried liquid gathering pipeline from the edge of the pad to the tie-in at the previously approved liquid gathering pipeline. Please refer to Exhibit B, Line 7.

Pipeline Gathering Construction

Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee. Gas gathering pipeline(s,) gas lift, or liquids pipelines may be constructed to lie on the surface or be buried. Where the pipeline is adjacent to the road or well pad, the road and/or well pad will be utilized for construction activities and staging. The area of disturbance during construction from the edge of road or well pad will typically be 30' in width. Where pipelines run cross country, the width of disturbance will typically be 45 ft for buried lines and 30 ft for surface lines. In addition, Kerr-McGee requests for a permanent 30' distrubance width that will be maintained for the portion adjacent to the road. The need for the 30' permanent distrubance width is for maintenance and repairs. Cross country permanent distrubance width also are required to be 30ft.

Above-ground installation will generally not require clearing of vegetation or blading of the surface, except where safety considerations necessitate earthwork. In some surface pipeline installation instances pipe cannot be constructed where it will lay. In these cases where an above-ground pipeline is constructed parallel and adjacent to a road, it will be welded/fused on the road and then lifted from the road to the pipeline route. In other cases where a pipeline route is not parallel and adjacent to a road (cross-country between sites), it will be welded/fused in place at a well pad, access road, or designated work area and pulled between connection locations with a suitable piece of equipment.

Buried pipelines will generally be installed parallel and adjacent to existing and/or newly constructed roads and within the permitted disturbance corridor. Buried pipelines may vary from 2 inches (typically fuel gas lines) to 24 inches (typically transportation lines) in diameter, but 6 to 16 inches is typical for a buried gas line. The diameter of liquids pipelines may vary from 2 inches to 12 inches, but 6 inches is the typical diameter. Gas lift lines may vary from 2 to 12 inches in diameter, but 6-inch diameter pipes are generally used for gas lift. If two or more pipelines are present (gas gathering, gas lift, and fluids), they will share a common trench where possible.

Typically, to install a buried pipeline, topsoil will be removed, windrowed and placed on the non-working side of the route for later reclamation. Because working room is limited, the spoil may be spread out across the working side and 10/10/2011

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construction will take place on the spoil. The working side of the corridor will be used for pipe stringing, bending, welding and equipment travel. Small areas on the working side displaying ruts or uneven ground will be groomed to facilitate the safe passage of equipment. After the pipelines are installed, spoil will be placed back into the trench, and the topsoil will be redistributed over the disturbed corridor prior to final reclamation. Typical depth of the trench will be 6 feet, but depths may vary according to site-specific conditions (presence of bedrock, etc.). The proposed trench width for the pipeline would range from 18-48 inches.

The pipeline will be welded along the proposed route and lowered into place. Trenching equipment will cut through the soil or into the bedrock and create good backfill, eliminating the need to remove large rocks. The proposed buried pipeline will be visually and radiographically inspected and the entire pipeline will be pneumatically or hydrostatically tested before being placed into service. Routine vehicle traffic will be prevented from using pipeline routes as travel ways by posting signs at the route's intersection with an access road.

The liquid gathering lines will be made of polyethylene or a composite polyethylene/steel or polyethylene/fiberglass that is not subject to internal or external pipe corrosion. The content of the produced fluids to be transferred by the liquid gathering system will be approximately 92% produced water and 8% condensate. Trunk line valve connections for the water gathering system will be below ground but accessible from the surface in order to prevent freezing during winter time.

If pipelines or roads encounter a drainage that could be subject to flooding or surface water during extreme precipitation events, Kerr-McGee will apply all applicable Army Corps mandates as well as the BLM's Hydraulic Considerations for Pipeline Crossings of Stream Channels (BLM Technical Note 423, April 2007). In addition, all stream and drainage

crossings will be evaluated to determine the need for stream alteration permits from the State of Utah Division of Water Rights and if necessary, required permits will be secured. Similarly, where a road or pipeline crossing exists the pipe will be butt welded and buried to a depth between 24 and 48 inches or more. Dirt roads will be cut and restored to a condition equivalent to the existing condition. All Uintah County road encroachment and crossing permits, where applicable, will be obtained prior to crossing construction. In no case will pressure testing of pipelines result in discharge of liquids to the surface. Pipeline signs will be installed along the route to indicate the pipeline proximity, ownership, and to provide emergency contact phone numbers. Above ground valves and lateral T's will be installed at various locations for production integrity and safety purposes.

Upon completion of the proposed buried pipeline, the entire area of disturbance will be reclaimed to the standards proposed in the Green River District Reclamation Guidelines. Please refer to section J for more details regarding final reclamation.

When no longer deemed necessary by the operator, Kerr-McGee or it's successor will consult with the BLM, Vernal Field Office before terminating of the use of the pipeline(s).

The Anadarko Completions Transportation System (ACTS) information:

Please refer to Exhibit C for ACTs Lines

Kerr-McGee will use either a closed loop drilling system that will require one pit and one storage area to be constructed on the drilling pad or a traditional drilling operation with one pit. The storage area will be used to contain only the de-watered drill cuttings and will be lined and reclaimed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion operations pit is lined and will be used for the wells drilled on the pad or used as part of our Anadarko Completions Transportation (ACTS) system which is disussed in more detail below. Using the closed loop drilling system will allow Kerr-McGee to decrease the amount of disturbance/footprint on location compared to a single large drilling/completion pit.

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NBU 1022-1J Pad Surface Use Plan of Operations 6 of 14

If Kerr-McGee does not use a closed loop system, it will construct a drilling reserve pit to contain drill cuttings and for use in completion operations. Depending on the location of the pit, its relation to future drilling locations, the reserve/completion pit will be utilized for the completion of the wells on that pad and/or be used as part of our ACTS system.

Kerr-McGee will use ACTS to optimize the completion processes for multiple pads across the project area which may include up to a section of development. ACTS will facilitate management of frac fluids by utilizing existing reserve pits and temporary, surface-laid aluminum liquids transfer lines between frac locations. The pit will be refurbished as follows when a traditional drill pit is used: mix and pile up drill cuttings with dry dirt, bury the original liner in the pit, walk bottom of pit with cat. Kerr-McGee will reline the pit with a 30 mil liner and double felt padding. The refurbished pit will be the same size or smaller as specified in the originally approved ROW/APD. The pit refurb will be done in a normal procedure and there will be no modification to the pit.

All four sides of the completions pit will be fenced in according to standard pit fencing procedures. Netting will be installed over all pits.

The collected hydrocarbons will be treated and sold at approved sales facilities. A loading rack with drip containment will also be installed where water trucks would unload and load to prevent damage caused from pulling hoses in and out of the pit .

ACTS will require temporarily laying multiple 6" aluminum water transfer lines on the surface between either existing or refurbished reserve pits. Please see the attached ACTS exhibit C for placement of the proposed temporary lines. The temporary aluminum transfer lines will be utilized to transport frac fluid being injected and/or recovered during the completion process and will be laid adjacent to existing access roads or pipeline corridors. Upon completion of the frac operation, the liquids transfer lines will be flushed with fresh water and purged with compressed air. The contents of the transfer lines will be flushed into a water truck for delivery to another ACTS location or a reserve pit.

The volume of frac fluid transported through a water transfer line will vary, but volume is projected to be approximately 1.75 bbls per 50-foot joint. Although the maximum working pressure is 125 psig, the liquids transfer lines will be operated at a pressure of approximately 30 to 40 psig. Kerr-McGee requests to keep the netted pit open for one year from first production of the first produced well on the pad. During this time the surrounding well location completion fluids may be recycled in this pit and utilized for other frac jobs in the area. After one year Kerr-McGee will backfill the pit and reclaim. If the pit is not needed for an entire year it will be backfilled and reclaimed earlier. Kerr-McGee understands that due to the temporary nature of this system, BLM considers this a casual use situation; therefore, no permanent ROW or temporary use plan will need to be issued by the BLM.

E. Location and Types of Water Supply:

Water for drilling and completion operations will be obtained from the following sources:

Permit # 49-2307	JD Field Services	Green River- Section 15, T2N, R22E
Permit # 49-2321	R.N. Industries	White River- Section 2, T10S, R24E
Permit # 49-2319	R.N. Industries	White River- Various Sources
Permit # 49-2320	R.N. Industries	Green River- Section 33, T8S, R23E

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

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F. Construction Materials:

Construction operations will typically be completed with native materials found on location. Construction materials that must be imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source (described in site-specific documents). No construction materials will be removed from federal lands without prior approval from the BLM. A source location other than an on-location construction site will be designated either via a map or narrative within the project specific materials provided to the BLM.

G. Methods for Handling Waste:

All wastes subject to regulation will be handled in compliance with applicable laws to minimize the potential for leaks or spills to the environment. Kerr-McGee also maintains a Spill Control and Countermeasure Plan, which includes notification requirements, including the BLM, for all reportable spills of oil, produced liquids, and hazardous materials.

Any accidental release, such as a leak or spill in excess of the reportable quantity, as established by 40 CFR Part 117.3, will be reported as per the requirements of CERCLA, Section 102 B. If a release involves petroleum hydrocarbons or produced liquids, Kerr-McGee will comply with the notification requirements of NTL-3A. Drill cuttings and/or drilling fluids will be contained in the reserve/frac pit whether a closed loop system is used or not. Cuttings will be buried in pit(s) upon closure. Unless specifically approved by the BLM, no oil or other oil-based drilling additives, chromium/metals-based, or saline muds will be used during drilling. Only fresh water (as specified above), biodegradable polymer soap, bentonite clay, and/or non-toxic additives will be used in the mud system.

Pits will be constructed to minimize the accumulation of surface precipitation runoff into the pit (via appropriate placement of subsoil storage areas and/or construction of berms, ditches, etc). Should unexpected liquid petroleum hydrocarbons (crude oil or condensate) be encountered during drilling, completions or well testing, liquid petroleum hydrocarbons will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/sales facility. Should petroleum hydrocarbons unexpectedly be released into a pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternate is approved by the BLM. Should timely removal not be feasible, the pit will be netted as soon as practical. Similarly, hydrocarbon removal will take place prior to the closure of the pit, unless authorization is provided for disposal via alternate pit closure methods (e.g. solidification).

The reserve and/or fracture stimulation pit will be lined with an impermeable liner. The liner will be a synthetic material 30 mil or thicker. The bottom and side walls of the pit will be void of any sharp rocks that could puncture the liner. The liner will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, bentonite, straw, etc.) that could damage the liner. After evaporation and when dry, the reserve pit liners will be cut off, ripped and/or folded back (as safety considerations allow) as near to the mud surface as possible and buried on location or hauled to a landfill prior to backfilling the pit with a minimum of five feet of soil material.

Where necessary and if conditions (freeboard, etc.) allow, produced liquids from newly completed wells may be temporarily disposed of into pits for a period not to exceed 90 days as per Onshore Order Number 7 (OSO 7). Subsequently, permanent approved produced water disposal methods will be employed in accordance with OSO 7 and/or as described in a Water Management Plan (WMP). Otherwise, fluids disposal locations and associated haul routes, for ROW consideration, are typically depicted on Topo A of individual projects. Revisions to the water source or method of transportation will be subject to written approval from the BLM.

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Any additional pits necessary for subsequent operations, such as temporary flare or workover pits, will be contained within the originally approved well pad and disturbance boundaries. Such temporary pits will be backfilled and reclaimed within 180 days of completion of work at a well location.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after one year from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions allow) to an approved site and the pit reclaimed. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift.

No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse (trash and other solid waste including cans, paper, cable, etc.) generated during construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly, and transported to an approved disposal facility. Immediately after removal of the drilling rig, all debris and other waste materials not contained within trash receptacles will be collected and removed from the well location.

For the protection of livestock and wildlife, all open pits (excluding flare pits) will be fenced to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet. Siphons, catchments, and absorbent pads will be installed to keep hydrocarbons produced by the drilling rig or other equipment on location from entering the reserve pit. Hydrocarbons, contaminated pads, and/or soils will be disposed of in accordance with state and federal requirements.

Portable, self-contained chemical toilets and/or sewage processing facilities will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents disposed of in an approved sewage disposal facility. All applicable regulations pertaining to disposal of human and solid waste will be observed.

Materials Management

Hazardous materials above reportable quantities will not be produced by drilling or completing proposed wells or constructing the pipelines/facilities. The term "hazardous materials" as used here means: (1) any substance, pollutant, or containment listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended 42 U.S.C. 9601 et seq., and the regulations issued under CERCLA; and (2) any hazardous waste as defined in RCRA of 1976, as amended. In addition, no extremely hazardous substance, as defined in 40 CFR 355, in threshold planning quantities, would be used, produced, stored, transported, or disposed of while producing any well.

Hazardous materials may be contained in some grease or lubricants, solvents, acids, paint, and herbicides, among others as defined above. Kerr-McGee maintains a file, per 29 CFR 1910.1200 (g) containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds, and/or substances that are used during the course of construction, drilling, completion, and production operations for this project. The transport, use, storage and handling of hazardous materials will follow procedures specified by federal and state regulations. Transportation of hazardous materials to the well location is regulated by the Department of Transportation (DOT) under 49 CFR, Parts 171-180. DOT regulations pertain to the packing, container handling, labeling, vehicle placarding, and other safety aspects.

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Potentially hazardous materials used in the development or operation of wells will be kept in limited quantities on well sites and at the production facilities for short periods of time. Chemicals meeting the criteria for being an acutely hazardous material/substance or meet the quantities criteria per BLM Instruction Memorandum No. 93-344 will not be used.

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities (crude oil/condensate, produced water). They may also be kept in limited quantities on drilling sites (barite, diesel fuel, cement, cottonseed hulls etc.) for short periods of time during drilling or completion activities.

Fluids disposal and pipeline/haul routes are depicted on Topo Map A.

Any produced water separated from recoverable condensate from the proposed well will be contained in a water tank and will then be transported by pipeline and/or truck to one of the pre-approved disposal sites:

RNI in Sec. 5 T9S R22E NBU #159 in Sec. 35 T9S R21E Ace Oilfield in Sec. 2 T6S R20E MC&MC in Sec. 12 T6S R19E Pipeline Facility in Sec. 36 T9S R20E Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E

Bonanza Evaporation Pond in Sec. 2 T10S R23E

Or to one of the following Kerr-McGee active Salt Water Disposal (SWD) wells:

NBU 159 SWD in Sec. 35 T9S R21E CIGE 112D SWD in Sec. 19 T9S R21E CIGE 114 SWD in Sec. 34 T9S R21E NBU 921-34K SWD in Sec. 34 T9S R21E NBU 921-33F SWD in Sec. 34 T9S R21E

H. Ancillary Facilities:

No additional ancillary facilities are planned for this location.

I. Well Site Layout:

The location, orientation and aerial extent of each drill pad, reserve/completion/flare pit (for closed loop or non-closed loop operations), access road ingress/egress points, drilling rig, dikes/ditches, existing wells/infrastructure, proposed cuts and fills, and topsoil and spoil material stockpile locations are depicted on the exhibits for each project, where applicable. Site-specific conditions may require slight deviation in actual equipment depending on whether a closed loop system is used. Surface distance may be less if using closed loop. But in either case, the area of distrubance will not exceed the maximum disturbance outlined in the attached exhibits.

For the protection of livestock and wildlife, all open pits and cellars will be fenced to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

10/10/2011

RECEIVED: February 02, 2012

NBU 1022-1J1BS / 1022-1J1CS / 1022-1J4BS 1022-1J4CS / 1022-1O1BS / 1022-1O4BS

NBU 1022-1J Pad Surface Use Plan of Operations 10 of 14

Each well will utilize either a centralized tank battery, centralized fluids management system, or have tanks installed on its pad. Production/ Produced Liquid tanks will be constructed, maintained, and operated to prevent unauthorized surface or subsurface discharges of liquids and to prevent livestock or wildlife entry. The tanks will be kept reasonably free from surface accumulations of liquid hydrocarbons. The tanks are not to be used for disposal of liquids from additional sources without prior approval of BLM.

J. Plans for Surface Reclamation:

The surface reclamation will be undertaken in two phases: interim and final. Interim reclamation is conducted following well completion and extends through the period of production. Interim reclamation is for the area of the well pad that is not required for production activities. Final reclamation is conducted following well plugging/conversion and/or facility abandonment processes.

Reclamation activities in both phases may include but is not limited to the re-contouring or re-configuration of topographic surfaces, restoration of drainage systems, segregation of spoils materials, minimizing surface disturbance, re-evaluating backfill requirements, pit closure, topsoil redistribution, soil treatments, seeding and weed control.

Interim Reclamation

Interim reclamation may include pit evaporation, fluid removal, pit solidification, re-contouring, ripping, spreading top soil, seeding, and/or weed control. Interim reclamation will be performed in accordance with OSO 1, or written notification will be provided to the BLM for approval. Where feasible, drilling locations, reserve pits, or access routes not utilized for production operations will be re-contoured to a natural appearance.

Interim re-contouring involves bringing all construction material from cuts and fills back onto the well pad and site and reestablishing the natural contours where desirable and practical. Fill and stockpiled spoils no longer necessary to the operation will be spread on the cut slopes and covered with stockpiled topsoil. All stockpiled top soils will be used for interim reclamation where practical to maintain soil viability. Where possible, the land surface will be left "rough" after re-contouring to ensure that the maximum surface area will be available to support the reestablishment of vegetative cover.

A reserve pit, upon being allowed to dry, will be backfilled and compacted with cover materials that are void of any topsoil, vegetation, large stones, rocks or foreign objects. Soils that are moisture laden, saturated, or partially/completely frozen will not be used for backfill or cover. The pit area will be mounded to allow for settling and to promote positive surface drainage away from the pit. Disposal of pit fluids and linings is discussed in Section G.

Final Reclamation

Final reclamation will be performed for unproductive wells and after the end of the life of a productive well. As soon as practical after the conclusion of drilling and testing operations, unproductive drill holes will be plugged and abandoned (P&A). Site and road reclamation will commence following plugging. In no case will reclamation at non-producing locations be initiated later than six (6) months from the date a well is plugged. A joint inspection of the disturbed area to be reclaimed may be requested by Kerr-McGee. The primary purpose of this inspection will be to review the existing conditions, or agree upon a revised final reclamation and abandonment plan. The BLM will be notified prior to commencement of reclamation operations. A Notice of Intent to Abandon will be filed for final recommendations regarding surface reclamation.

10/10/2011

NBU 1022-1J1BS / 1022-1J1CS / 1022-1J4BS 1022-1J4CS / 1022-1O1BS / 1022-1O4BS

NBU 1022-1J Pad Surface Use Plan of Operations 11 of 14

After plugging, all wellhead equipment that is no longer needed will be removed, and the well site will be reclaimed. Final contouring will blend with and follow as closely as practical the natural terrain and contours of the original site and surrounding areas. After re-contouring the site to the approximate contour that existed prior to pad construction, final grading will be conducted over the entire surface of the well site and access road. The area will be ripped to a depth of 18 to 24 inches on 18 to 24-inch centers, where practical. The surface soil material will be pitted with small depressions to form longitudinal depressions 12 to 18 inches deep, where practical. The entire area will be uniformly covered with the depressions constructed perpendicular to the natural flow of water.

Reclamation of roads will be performed at the discretion of the BLM. All unnecessary surface equipment and structures (e.g. cattle guards) and water control structures (e.g. culverts, drainage pipes) not needed to facilitate successful reclamation will be removed during final reclamation. Roads that will be reclaimed will be ripped to a depth of 18 inches where practical, re-contoured to approximate the original contour of the ground and seeded in accordance with the seeding specifications of the BLM.

Upon successfully completing reclamation of a P&A location, a Final Abandonment Notice will be submitted to the BLM.

Measures Common to Interim and Final Reclamation

Soil preparation will be conducted using a disk for areas in need of more soil preparation following site preparation. This will provide primary soil tillage to a depth no greater than 6 inches. Prior to reseeding, compacted areas will be scarified by ripping or chiseling to loosen compacted soils, promote water infiltration, and improve soil aeration and root penetration.

Seeding will occur year-round as conditions allow and will typically be accomplished through the use of a no-till rangeland style seed drill with a "picker box" in order to seed "fluffy" seed. Where drill seeding is not the preferred method, seed will be broadcast and then raked into the ground at double the rate of drill seeding. Seed mixes appropriate to the native plant community as determined and specified for each project location based on the site specific soils will be used for

re-vegetation. The seed mixes will be selected from a list provided by or approved by the BLM, or a specific seed mix will be proposed by Kerr-McGee to the BLM and used after its approval. The selected specific seed mix for each well location and road segment will be utilized while performing interim and final reclamation for each project. All seed will be certified and tags will be maintained by Kerr-McGee. Every effort will be made to obtain "cheat grass free seed".

Seed Mix to be used for Well Site, Access Road, and Pipeline (as applicable):

Shadescale Mix	Pure Live Seed lbs/acre	
Indian Ricegrass	3	
Sandberg	0.75	
Bottlebrush	1	
Great Basin	0.5	
Crested	1.5	
Winterfat	0.25	
Shadscale	1.5	
Four-wing	0.75	
Forage Kochia	0.25	
Total	9.5	

10/10/2011

NBU 1022-1J1BS / 1022-1J1CS / 1022-1J4BS 1022-1J4CS / 1022-1O1BS / 1022-1O4BS

NBU 1022-1J Pad Surface Use Plan of Operations 12 of 14

Additional soil amendments and/or stabilization may be required on sites with poor soils and/or excessive erosion potential. Where severe erosion can become a problem and/or the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. Slopes will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These materials will include, but are not limited to: erosion control blankets, hydro-mulch, and/or bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage. Soil amendments such as "Sustain" (an organic fertilizer that will be applied at the rate 1,800 – 2,100 lbs/acre with seed) may also be dry broadcast or applied with hydro-seeding equipment.

Weed Control

All weed management will be done in accordance with the Vernal BLM Surface Disturbance Weed Policy. Noxious weeds will be controlled, as applicable, on project areas. Monitoring and management of noxious and/or invasive weeds of concern will be completed annually until the project is deemed successfully reclaimed by the surface management agency and/or owner according to the Anadarko Integrated Weed Management Plan. Noxious weed infestations will be mapped using a GPS unit and submitted to the BLM with information required in the Vernal BLM Surface Disturbance Weed Policy. If herbicide is to be applied it will be done according to an approved Pesticide Use Permit (PUP), inclusive of applicable locations. All pesticide applications will be recorded using a Pesticide Application Record (PAR) and will be submitted along with a Pesticide Use Report (PUR) annually prior to Dec. 31.

Monitoring

Monitoring of reclaimed project areas will be completed annually during the growing season and actions to ensure reclamation success will be taken as needed. During the first two growing seasons an ocular methodology will be used to determine the success of the reclamation activities. During the 3rd growing season a 200 point line intercept (quantitative) methodology will be used to obtain basal cover. The goal is to have the reclaimed area reach 30% basal cover when compared to the reference site. If after three growing seasons the area has not reached 30% basal cover, additional reclamation activities may be necessary. Monitoring will continue until the reclaimed area reaches 75% basal cover of desirable vegetation when compared to the reference site. (Green River District Reclamation Guidelines)

All monitoring reports will be submitted electronically to the Vernal BLM in the form of a geo-database no later than March 1st of the calendar year following the data collection.

K. Surface/Mineral Ownership:

United States of America Bureau of Land Management 170 South 500 East Vernal, UT 84078 (435)781-4400

L. Other Information:

Cultural and Paleontological Resources

All personnel are strictly prohibited from collecting artifacts, any paleontological specimens or fossils, and from disturbing any significant cultural resources in the area. If artifacts, fossils, or any culturally sensitive materials are exposed or identified in the area of construction, all construction operations that would affect the newly discovered resource will cease, and Kerr-McGee will provide immediate notification to the BLM.

10/10/2011

RECEIVED: February 02, 2012

Resource Reports:

A Class I literature survey was completed in May 2011 by Montgomery Archaeological Consultants, Inc (MOAC). For additional details please refer to report MOAC 11-145.

A paleontological reconnaissance survey was completed in June, 2010 and July, 2011 by SWCA Environmental Consultants. For additional details please refer to reports UT11-14314-28, UT11-14314-32 and UT11-14314-33.

Biological field survey was completed in May and June of 2011 by Grasslands Consulting, Inc (GCI). For additional details please refer to reports GCI-515 and GCI 559.

Proposed Action Annual Emissions Tables:

Table 1: Proposed Action Annual Emissions (tons/year) ¹								
Pollutant	Development	Production	Total					
NOx	3.8	0.12	3.92					
CO	2.2	0.11	2.31					
VOC	0.1	4.9	5					
SO_2	0.005	0.0043	0.0093					
PM_{10}	1.7	0.11	1.81					
PM _{2.5}	0.4	0.025	0.425					
Benzene	2.2E-03	0.044	0.046					
Toluene	1.6E-03	0.103	0.105					
Ethylbenzene	3.4E-04	0.005	0.005					
Xylene	1.1E-03	0.076	0.077					
n-Hexane	1.7E-04	0.145	0.145					
Formaldehyde	1.3E-02	8.64E-05	1.31E-02					

¹ Emissions include 1 producing well and associated operations traffic during the year in which the project is developed

Table 2: Proposed Action versus 2012 WRAP Phase III Emissions Inventory Comparison						
	Proposed Action Production Emissions	WRAP Phase III 2012 Uintah Basin Emission	Percentage of Proposed Action to WRAP Phase			
Species	(ton/yr)	Inventory ^a (ton/yr)	III			
NOx	23.52	16,547	0.14%			
VOC	30	127,495	0.02%			

 $[^]a\ http://www.wrapair.org/forums/ogwg/Phase III_Inventory.html$

Uintah Basin Data

NBU 1022-1J1BS / 1022-1J1CS / 1022-1J4BS 1022-1J4CS / 1022-1O1BS / 1022-1O4BS NBU 1022-1J Pad Surface Use Plan of Operations 14 of 14

M. Lessee's or Operators' Representative & Certification:

Gina T. Becker Regulatory Analyst II Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6086 Tommy Thompson General Manager, Drilling Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Gina T.Becker

October 10, 2011

Date



Joseph D. Johnson 1099 18th Street Ste. 1800 • Denver, CO 80202 720-929-6708 • FAX 720-929-7708 E-MAIL: JOE.JOHNSON @ ANADARKO.COM

September 28, 2011

Ms. Diana Mason Division of Oil, Gas and Mining P.O. Box 145801 Salt Lake City, UT 84114-6100

Re: Directional Drilling R649-3-11

NBU 1022-1J1CS T10S-R22E

Section 1: NWSE/NWSE Surface: 1877' FSL, 2227' FEL Bottom Hole: 2078' FSL, 1807' FEL

Uintah County, Utah

Dear Ms. Mason:

Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

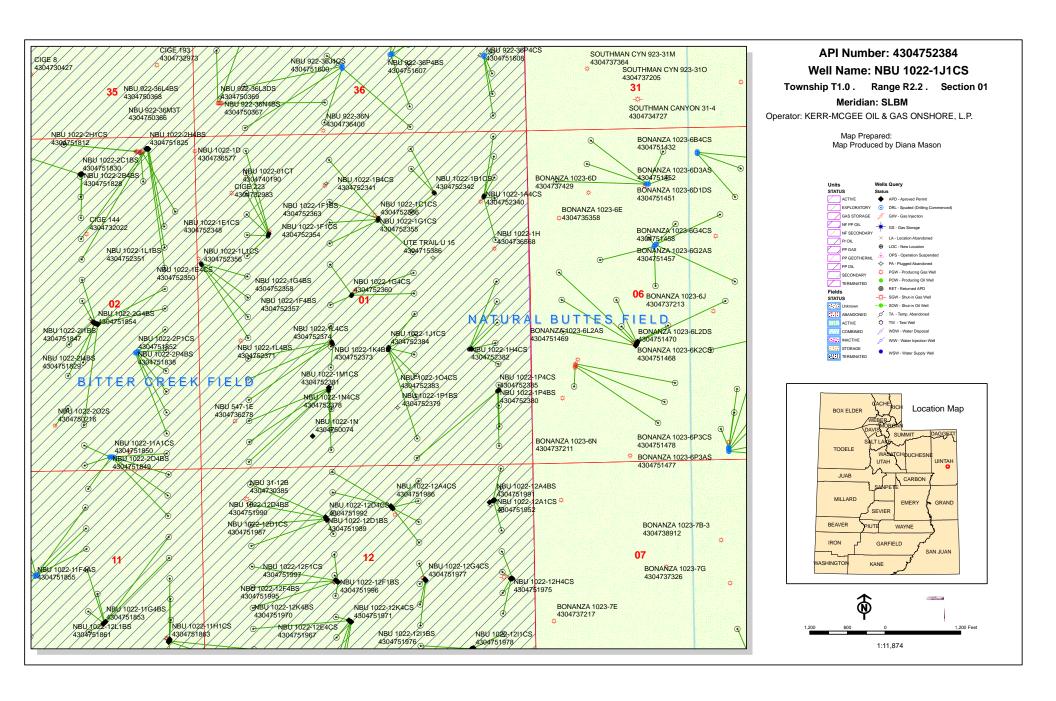
- Kerr-McGee's NBU 1022-1J1CS is located within the Natural Buttes Unit area.
- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing road and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to R649-3-11.

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

Joseph D. Johnson Landman



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO: 3160 (UT-922)

February 10, 2012

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2011 Plan of Development Natural Buttes Unit

Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2011 within the Natural Buttes Unit, Uintah County, Utah.

API # WELL NAME LOCATION

(Proposed PZ WASATCH-MESA VERDE)

WELL PAD - NBU 1022-25D

43-047-52295 NBU 1022-25C2DS Sec 25 T10S R22E 0653 FNL 0339 FWL BHL Sec 25 T10S R22E 0488 FNL 1933 FWL Sec 25 T10S R22E 0730 FNL 0314 FWL 43-047-52296 NBU 1022-25C3DS BHL Sec 25 T10S R22E 1147 FNL 1931 FWL 43-047-52297 NBU 1022-25C3AS Sec 25 T10S R22E 0732 FNL 0324 FWL BHL Sec 25 T10S R22E 0820 FNL 1938 FWL 43-047-52298 NBU 1022-25D2DS Sec 25 T10S R22E 0650 FNL 0319 FWL (BH) BHL Sec 25 T10S R22E 0485 FNL 0630 FWL 43-047-52299 NBU 1022-25F2AS Sec 25 T10S R22E 0652 FNL 0329 FWL BHL Sec 25 T10S R22E 1482 FNL 1955 FWL 43-047-52300 NBU 1022-25D3DS Sec 25 T10S R22E 0727 FNL 0295 FWL BHL Sec 25 T10S R22E 1152 FNL 0630 FWL 43-047-52301 NBU 1022-25D3AS Sec 25 T10S R22E 0729 FNL 0305 FWL BHL Sec 25 T10S R22E 0822 FNL 0631 FWL 43-047-52302 NBU 1022-25E2AS Sec 25 T10S R22E 0648 FNL 0309 FWL BHL Sec 25 T10S R22E 1479 FNL 0631 FWL WELL PAD - NBU 1022-1A BHL Sec 01 T10S R22E 0099 FNL 0498 FEL

RECEIVED: February 10, 2012

API #	WE.	LL NAME			LO	CATIO	N		
(Proposed PZ	WASZ	ATCH-MESA V	VERDI	Ξ)					
43-047-52336	NBU	1022-1A1C							
43-047-52337	NBU							0667 0493	
43-047-52338	NBU	1022-1н1С							
43-047-52340 WELL PAD - N									
43-047-52339									
43-047-52341	NBU	1022-1B4C							
43-047-52342 WELL PAD - N									
43-047-52343									
43-047-52344	NBU	1022-1D1C							
43-047-52345	NBU	1022-1D4BS							
43-047-52346	NBU	1022-1D4C							
43-047-52347	NBU	1022-1E1BS						1156 0821	
43-047-52348 WELL PAD - N								1152 0821	
43-047-52349	-							0086 0821	
43-047-52350	NBU	1022-1E4C						0088 0821	
43-047-52351	NBU	1022-1L1BS						0091 0820	
43-047-52356 WELL PAD - N								0094 0820	
43-047-52352								2468 2136	

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API #	WE:	LL NAME			LO	CATIO	N		
(Proposed PZ	WASA	ATCH-MESA VERD	Ε						
43-047-52357	NBU	1022-1F4BS BHL			T10S T10S				
43-047-52358	NBU	1022-1G4BS BHL			T10S T10S				
43-047-52360	NBU	1022-1G4CS BHL							
WELL PAD - N	RTT 10	022-1G							
		-	0	0.1	m1 0 0	DOOR	1266	 0054	
43-047-52353	NBU	1022-1C4CS BHL			T10S T10S				
43-047-52354	NBU	1022-1F1CS BHL			T10S T10S				
43-047-52355	NBU	1022-1G1CS BHL			T10S T10S				
43-047-52363	NBU	1022-1F1BS BHL			T10S T10S				
		1022-1C1CS BHL							
WELL PAD - N									
43-047-52359	NBU	1022-1J1BS BHL			T10S T10S				
43-047-52362	NBU	1022-101BS BHL			T10S T10S				
43-047-52366	NBU	1022-1J4CS BHL							
43-047-52367	NBU	1022-104BS BHL			T10S T10S				
43-047-52384	NBU	1022-1J1CS BHL			T10S T10S				
	D	200 1**							
WELL PAD - N	-								
43-047-52361	NBU	1022-1M1BS BHL			T10S T10S				
43-047-52365	NBU	1022-1K1CS BHL			T10S T10S				
43-047-52370	NBU	1022-1K4CS BHL			T10S T10S				
43-047-52371	NBU	1022-1L4BS BHL			T10S T10S				

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Page 4

API #	WE	LL NAME			LO	CATIO	N			
(Proposed PZ	WASA	ATCH-MESA VERD	E							
43-047-52373	NBU	1022-1K4BS BHL			T10S T10S					
43-047-52374	NBU	1022-1L4CS BHL			T10S T10S					
WELL PAD - N	BU 10	022-11								
43-047-52364	NBU	1022-114CS BHL			T10S T10S					
43-047-52368	NBU	1022-1I1BS BHL			T10S T10S					
43-047-52369	NBU	1022-1I1CS BHL			T10S T10S					
					T10S T10S					
WELL PAD - N 3 43-047-52372		1022-1M4CS			T10S T10S					
43-047-52375	NBU	1022-1M4BS BHL			T10S T10S					
43-047-52376	NBU	1022-1N1CS BHL			T10S T10S					
43-047-52377	NBU	1022-1N4BS BHL			T10S T10S					
43-047-52378	NBU	1022-1N4CS BHL			T10S T10S					
					T10S T10S					
WELL PAD - N			-	0.1	m100	D00=	1166	DC-	0.405	DD
43-047-52379	NBU	1022-1P1BS BHL			T10S T10S					
43-047-52380	NBU	1022-1P4BS BHL			T10S T10S					
43-047-52383	NBU	1022-104CS BHL			T10S T10S					
43-047-52385	NBU	1022-1P4CS	Sec	01	T10S	R22E	1148	FSL	0508	FEL

BHL Sec 01 T10S R22E 0270 FSL 0503 FEL

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The NBU 1022-25D2DS, 43-047-52298, is being permitted to target productive horizons below the unitized zone of the Natural Buttes Unit as defined in Section 3 of said agreement. We recommend not approving commingling of production with these zones and the unitized zones of the Natural Buttes Unit until this matter has been resolved by the BLM's Utah State Office.

This office has no other objection to permitting the wells at this time.

Michael L. Coulthard Management, ou=Branch of Minerals, email=Michael Coulthardelmgov, c=US

Digitally signed by Michael L. Coulthard DN: cn=Michael L. Coulthard, o=Bureau of Land Date: 2012.02.10 08:36:59 -07'00'

bcc: File - Natural Buttes Unit Division of Oil Gas and Mining Central Files Agr. Sec. Chron Fluid Chron

MCoulthard:mc:2-10-12

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 2/3/2012 API NO. ASSIGNED: 43047523840000

WELL NAME: NBU 1022-1J1CS

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995) PHONE NUMBER: 720 929-6086

CONTACT: Gina Becker

PROPOSED LOCATION: NWSE 01 100S 220E **Permit Tech Review:**

> SURFACE: 1877 FSL 2227 FEL **Engineering Review:**

> **BOTTOM: 2078 FSL 1807 FEL** Geology Review:

COUNTY: UINTAH

LATITUDE: 39.97585 LONGITUDE: -109.38690 UTM SURF EASTINGS: 637745.00 NORTHINGS: 4426323.00

FIELD NAME: NATURAL BUTTES LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-011336 PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 1 - Federal **COALBED METHANE: NO**

RECEIVED AND/OR REVIEWED: LOCATION AND SITING:

✓ PLAT R649-2-3.

Unit: NATURAL BUTTES Bond: FEDERAL - WYB000291

Potash R649-3-2. General

Oil Shale 190-5

Oil Shale 190-3 R649-3-3. Exception

Oil Shale 190-13 **Drilling Unit**

Board Cause No: Cause 173-14 Water Permit: 43-8496

Effective Date: 12/2/1999 **RDCC Review:**

Siting: Suspends General Siting Fee Surface Agreement

✓ Intent to Commingle R649-3-11. Directional Drill

Commingling Approved

Comments: Presite Completed

Stipulations:

3 - Commingling - ddoucet 4 - Federal Approval - dmason 15 - Directional - dmason 17 - Oil Shale 190-5(b) - dmason

API Well No: 43047523840000



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: NBU 1022-1J1CS API Well Number: 43047523840000 Lease Number: UTU-011336

Surface Owner: FEDERAL Approval Date: 2/15/2012

Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingle:

In accordance with Board Cause No. 173-14, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil

API Well No: 43047523840000

shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at http://oilgas.ogm.utah.gov

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) due prior to implementation
- Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
 - Report of Water Encountered (Form 7) due within 30 days after completion
 - Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved By:

For John Rogers Associate Director, Oil & Gas



UNITED STATES

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010

DEPARTMENT OF		
BUREAU OF LAND		5. Lease Serial No. UTU011336
BLM VERNAAPLICATION FOR PERMIT	TO DRILL OR REENTER	6. If Indian, Allottee or Tribe Name
1a. Type of Work: ☑ DRILL ☐ REENTER		7. If Unit or CA Agreement, Name and No. UTU63047A
1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Ot		Lease Name and Well No. NBU 1022-1J1CS
KERR-MCGEE OIL & GAS ONSHORMAII: GINA.B	GINA T BECKER ECKER@ANADARKO.COM	9. API Well No. 43.047-52384
3a. Address P.O. BOX 173779 DENVER, CO 80202-3779	3b. Phone No. (include area code) Ph: 720-929-6086 Fx: 720-929-7086	10. Field and Pool, or Exploratory NATURAL BUTTES
4. Location of Well (Report location clearly and in accorded	nnce with any State requirements.*)	11. Sec., T., R., M., or Blk. and Survey or Area
At surface NWSE 1877FSL 2227FEL	39.975841 N Lat, 109.386757 W Lon	Sec 1 T10S R22E Mer SLB
At proposed prod. zone NWSE 2078FSL 1807FEL	39.976385 N Lat, 109.385255 W Lon	
 Distance in miles and direction from nearest town or post APPROXIMATELY 46 MILES SOUTH OF VERI 	office* NAL, UTAH	12. County or Parish UINTAH 13. State
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of Acres in Lease	17. Spacing Unit dedicated to this well
848	522.84	
 Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 	19. Proposed Depth	20. BLM/BIA Bond No. on file
1190	8540 MD 8494 TVD	WYB000291
21. Elevations (Show whether DF, KB, RT, GL, etc. 5082 GL	22. Approximate date work will start 03/01/2012	23. Estimated duration 60-90 DAYS
	24. Attachments	
The following, completed in accordance with the requirements of	f Onshore Oil and Gas Order No. 1, shall be attached to the	nis form:
Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syste SUPO shall be filed with the appropriate Forest Service Off	em Lands, the Item 20 above).	ormation and/or plans as may be required by the
25. Signature (Electronic Submission)	Name (Printed/Typed) GINA T BECKER Ph: 720-929-6086	Date 10/12/2011
Title REGULATORY ANALYST II		I

Approved by (Signature

Jerry Kenczka

JUN 2 7 2012

ant Field Manager ands & Mineral Resources

Office

VERNAL FIELD OFFICE

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct

operations thereon. Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #119999 verified by the BLM Well Information System For KERR-MCGEE OIL & GAS ONSHORE, sent to the Vernal

RECEIVED AUG 1 0 2012

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

DIV. OF OIL, GAS & MINING

OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

17.120032AZ

APD Doded 10/21/11



UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE**

VERNAL. UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Well No:

API No:

Kerr McGee Oil & Gas Onshore

170 South 500 East

NBU 1022-1J1CS

43-047-52384

Location:

NWSE, Sec. 1, T10S, R22E

Lease No: Agreement: UTU-011336 **Natural Buttes**

OFFICE NUMBER:

(435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: blm_ut_vn_opreport@blm.gov
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

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SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

- All new and replacement internal combustion gas field engines of less than or equal to 300 designrated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

Site Specific COA's

- All new and replacement internal combustion gas field engines of less than or equal to 300 designrated horse power must not emit more than 2 grams of NOx per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower-hour.
- All new and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 grams of NOx per horsepower-hour.
- The following would be used as standard operating procedures: Green completion or controlled VOC emissions methods with 90% efficiency for Oil or Gas Atmospheric Storage Tanks, VOC Venting controls or flaring, Glycol Dehydration and Amine Unites, Well Completion, Re-Completion, Venting, and Planned Blowdown Emissions.
- All reclamation will comply with the Green River Reclamation Guidelines.
- All vehicles and equipment shall be cleaned either through power-washing, or other approved method, if the vehicles or equipment were previously operated outside the Uinta Basin, to prevent weed seed introduction.
- All disturbance areas shall be monitored for noxious weeds annually, for a minimum of three growing seasons following completion of project or until desirable vegetation is established.
- Noxious and invasive weeds will be controlled throughout the area of project disturbance.
- Noxious weeds will be inventoried and reported to BLM in the annual reclamation report. Where an
 integrated pest management program is applicable, coordination has been undertaken with the
 state and local management program (if existing). A copy of the pest management plan will be
 submitted for each project.
- A pesticide use proposal (PUP) will be obtained for the project.

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- A permitted paleontologist is to be present to monitor construction at well pads CIGE 31 (AKA NBU 1022-1E1) and NBU 1022-1I during all surface disturbing actives: examples include the following building of the well pad, access road, and pipelines.
- The best method to avoid entrainment is to pump from an off-channel location one that does not connect to the river during high spring flows. An infiltration gallery constructed in a BLM and Service approved location is best.
- If the pump head is located in the river channel where larval fish are known to occur, the following measures apply:
 - a. do not situate the pump in a low-flow or no-flow area as these habitats tend to concentrate larval fishes;
 - b. limit the amount of pumping, to the greatest extent possible, during that period of the year when larval fish may be present (April 1 to August 31); and
 - c. limit the amount of pumping, to the greatest extent possible, during the pre-dawn hours as larval drift studies indicate that this is a period of greatest daily activity.
- Screen all pump intakes with 3/32 inch mesh material.
- Approach velocities for intake structures will follow the National Marine Fisheries Service's document "Fish Screening Criteria for Anadromous Salmonids". For projects with an in-stream intake that operate in stream reaches where larval fish may be present, the approach velocity will not exceed 0.33 feet per second (ft/s).
- Report any fish impinged on the intake screen to the Service (801.975.3330) and the Utah Division of Wildlife Resources:

Northeastern Region 152 East 100 North, Vernal, UT 84078 Phone: (435) 781-9453

Kerr McGee can only use the following water source:
 Permit # 49-2307 JD Field Services Green River-Section 15, T2N, R22E

The following measures are required by and have been committed to by Anadarko for all areas where surface disturbing activities cannot be avoided by the required 300 foot buffer from identified Uinta Basin hookless cactus individuals.

- Silt fencing will be used to protect populations within 300 feet of surface disturbing activities that are downslope or downwind of the surface disturbance
- A qualified botanist will be on site to monitor the surface-disturbing activities.
- Dust abatement will occur and will be done using only water.
- All cacti within 300 feet will be flagged immediately prior to surface-disturbing activities are completed.
- Pipelines will be located to the far side of the ROW to maximize distance from cacti.

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 Project personnel associated with construction activities would be instructed to drive a speed limit of 15 miles per hour on unpaved roads and to remain on the existing roads and approved ROW at all times.

To maintain compliance with current cactus survey protocols, the following measures will be required.

- If construction does not occur within 4 years of the original survey date, new 100% clearance surveys will be required.
- Prior to construction within 4 years of the original survey date, a spot check survey will be required during the year of construction. KMG and their respective 3rd party surveyor will refer to the current Sclerocactus Spot Check Survey Methods, to determine site specific survey distances and intensity levels.
- Spot check reports will be reported to the BLM and the US Fish and Wildlife Service.
- Construction will not commence until written approval is received from the BLM.

Discovery Stipulation: Reinitiation of section 7 consultation with the USFWS will be sought immediately if any loss of plants or occupied habitat for Pariette cactus or Uinta Basin hookless cactus is anticipated as a result of project activities.

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DOWNHOLE PROGRAM CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

- Gamma ray Log shall be run from Total Depth to surface.
- CBL will be run from TD to TOC.

Variances Granted:

Air Drillina

- Properly lubricated and maintained rotating head. Variance granted to use a properly maintained and lubricated diverter bowl in place of a rotating head.
- Blooie line discharge 100' from the will bore. Variance granted for blooie line discharge to be 45' from the well bore.
- Compressors located in the opposite direction from the blooie line a minimum of 100' from the well bore. Variance granted for truck/trailer mounted air compressors located 40' from the well bore.
- In lieu of mud products on location, Kerr McGee will fill the reserve pit with water for the kill medium and will utilize a skid pump near the reserve pit to supply the water to the well bore if necessary.
- Automatic igniter. Variance granted for igniter due to there being no productive formations encountered while air drilling.
- FIT Test. Variance granted due to well-known geology and the problems that can occur with the FIT Test.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a

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test pump with a chart recorder and <u>NOT</u> by the rig pumps. Test shall be reported in the driller's log.

- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- Cement baskets shall not be run on surface casing.
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is
 encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal
 Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM,
 Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well in LAS format to BLM_UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

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OPERATING REQUIREMENT REMINDERS:

 All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.

- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be
 notified when it is placed in a producing status. Such notification will be by written communication
 and must be received in this office by not later than the fifth business day following the date on
 which the well is placed on production. The notification shall provide, as a minimum, the following
 informational items:
 - o Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - o The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - o Unit agreement and/or participating area name and number, if applicable.
 - o Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be
 reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported
 verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will
 be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of
 Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs,

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core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office
 Petroleum Engineers will be provided with a date and time for the initial meter calibration and all
 future meter proving schedules. A copy of the meter calibration reports shall be submitted to the
 BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid
 hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall
 be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering
 lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a
 suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be
 obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
 equipment shall be removed from a well to be placed in a suspended status without prior approval
 of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior
 approval of the BLM Vernal Field Office shall be obtained and notification given before resumption
 of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office
 Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in
 order that a representative may witness plugging operations. If a well is suspended or abandoned,
 all pits must be fenced immediately until they are backfilled. The "Subsequent Report of
 Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of
 the well bore, showing location of plugs, amount of cement in each, and amount of casing left in
 hole, and the current status of the surface restoration.

Sundry Number: 29739 API Well Number: 43047523840000

	STATE OF UTAH		FORM 9
ι	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MININ		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-011336
SUNDR	Y NOTICES AND REPORTS OF	N WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	posals to drill new wells, significantly de reenter plugged wells, or to drill horizonta n for such proposals.		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 1022-1J1CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	ISHORE, L.P.		9. API NUMBER: 43047523840000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th	PI n Street, Suite 600, Denver, CO, 80217 3	HONE NUMBER: 779 720 929-6	9. FIELD and POOL or WILDCAT: 5NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1877 FSL 2227 FEL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSH	IIP, RANGE, MERIDIAN: 01 Township: 10.0S Range: 22.0E Meridian	n: S	STATE: UTAH
11. CHECK	K APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
_	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
✓ SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud: 8/30/2012	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
0,00,20.2	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
	WILDCAT WELL DETERMINATION	OTHER	OTHER:
	COMPLETED OPERATIONS. Clearly show all CKET RIG. DRILLED 20" CONDI		
RAN 14" 36.7# SCHI	EDULE 10 CONDUCTOR PIPE. /ELL LOCATION ON 8/30/2012	CMT W/28 SX READY	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY
			September 06, 2012
NAME (PLEASE PRINT)	PHONE NUMBER		
Cara Mahler	720 929-6029	Regulatory Analyst I	
SIGNATURE N/A		DATE 9/5/2012	

SUBMIT AS EMAIL Print Form

BLM - Vernal Field Office - Notification Form

	rator KERR-McGEE OIL & GA			
	mitted By <u>CARA MAHLER</u> Ph		er <u>720.</u>	929.6029
	Name/Number NBU 1022-1J			
_	Qtr NWSE Section 1		<u>0S</u> R	ange <u>22E</u>
	se Serial Number <u>UTU011336</u>			
API	Number <u>4304752384</u>			
•	<u>d Notice</u> – Spud is the initial below a casing string.	spudding o	f the we	ll, not drilling
	Date/Time <u>08/29/2012</u>	09:00 HRS	AM 🗌	PM
Casii time ✓	ng – Please report time casins. Surface Casing Intermediate Casing Production Casing Liner Other	ng run start	ts, not ce	ementing
	Date/Time <u>09/27/2012</u>	08:00 HRS	AM 🔲	PM 🗌
BOP	E Initial BOPE test at surface BOPE test at intermediate of 30 day BOPE test Other			RECEIVED AUG 2 8 2012 DIV. OF OIL, GAS & MINING
ì	Date/Time		AM 🗌	РМ
Rem	arks estimated date and time. PLEA	SE CONTACT KENN	Y GATHINGS	AT
435.82	28.0986 OR LOVEL YOUNG AT 435.781.705	1		

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM

Operator:

KERR McGEE OIL & GAS ONSHORE LP

Operator Account Number: N 2995

Address:

P.O. Box 173779

city DENVER

state CO zip 80217

Phone Number: (720) 929-6029

Well 1

API Number	Well	Name	QQ	Sec	Twp	Rng	County		
4304752359	NBU 1022-1J1BS		NWSE	1	108	22E	UINTAH		
Action Code	Current Entity Number	New Entity Number	s	Spud Date			ity Assignment Iffective Date		
<u> </u>	99999	2900	8	8/30/2012			120 12012		
	$\frac{1}{2}$								

Well 2

API Number	Well	Name	QQ Sec Twp Rng		County		
4304752384	NBU 1022-1J1CS		NWSE	1	108	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	s	pud Da	te		ty Assignment ffective Date
В	99999	2900	8	3/30/201	12	91	30 13013
	J BUCKET RIG. D WELL LOCATION O	N 8/30/2012 AT 11:00	HRS. B	WST HL: Y	nud NWS+	٠	

Well 3

Well	Name	QQ	QQ Sec Twp		Rng	County
NBU 1022-1	NBU 1022-1J4CS		NWSE 1		22E	UINTAH
Current Entity Number	New Entity Number	s	pud Da	te		y Assignment fective Date
99999	2900	8	3/30/201	2	91	30 13013
Comments: MIRU BUCKET RIG. SPUD WELL LOCATION ON 8/30/2012 AT 17:00 HRS. BHL: DWSC						
	NBU 1022-1 Current Entity Number 99999 BUCKET RIG.	Current Entity Number 99999 3000 BUCKET RIG.	NBU 1022-1J4CS Current Entity Number 99999 3900 BUCKET RIG.	NBU 1022-1J4CS NWSE 1 Current Entity Number New Entity Number Spud Da 99999 200 8/30/201 BUCKET RIG. WS	NBU 1022-1J4CS NWSE 1 10S Current Entity Number New Entity Number Spud Date 99999 2900 8/30/2012 BUCKET RIG. WSMVD	NBU 1022-1J4CS NWSE 1 10S 22E Current Entity Number New Entity Number Spud Date Entit Eff 99999 2900 8/30/2012 9/30/2012 9/30/2012 BUCKET RIG. WSMVD

ACTION CODES:

- A Establish new entity for new well (single well only)
- B Add new well to existing entity (group or unit well)
- C Re-assign well from one existing entity to another existing entity
- D Re-assign well from one existing entity to a new entity
- E Other (Explain in 'comments' section) RECEIVED

CARA	MA	HL	.ER
------	----	----	-----

Name (Please Print)

Signature

REGULATORY ANALYST

9/5/2012

Title

Date

SEP 0 6 2012

Sundry Number: 31520 API Well Number: 43047523840000

	STATE OF UTAH			FORM 9		
ı	DEPARTMENT OF NATURAL RESOUR DIVISION OF OIL, GAS, AND MI			5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-011336		
SUNDR	WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:				
Do not use this form for pro current bottom-hole depth, I FOR PERMIT TO DRILL form	7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES					
1. TYPE OF WELL Gas Well				8. WELL NAME and NUMBER: NBU 1022-1J1CS		
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	ISHORE, L.P.			9. API NUMBER: 43047523840000		
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th	n Street, Suite 600, Denver, CO, 8021		NE NUMBER: 9 720 929-6	9. FIELD and POOL or WILDCAT: 5NATERAL BUTTES		
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1877 FSL 2227 FEL				COUNTY: UINTAH		
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 01 Township: 10.0S Range: 22.0E Mer	ridian: S	3	STATE: UTAH		
11. CHECI	K APPROPRIATE BOXES TO INDICA	ATE NA	TURE OF NOTICE, REPOR	RT, OR OTHER DATA		
TYPE OF SUBMISSION			TYPE OF ACTION			
	ACIDIZE		TER CASING	CASING REPAIR		
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	С	HANGE TUBING	CHANGE WELL NAME		
	CHANGE WELL STATUS	□ co	OMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE		
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	☐ FR	RACTURE TREAT	NEW CONSTRUCTION		
	OPERATOR CHANGE	PL	LUG AND ABANDON	PLUG BACK		
SPUD REPORT	PRODUCTION START OR RESUME	☐ RE	ECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION		
Date of Spud:	REPERFORATE CURRENT FORMATION	☐ sıı	DETRACK TO REPAIR WELL	TEMPORARY ABANDON		
	TUBING REPAIR	☐ VE	ENT OR FLARE	WATER DISPOSAL		
DRILLING REPORT Report Date:	WATER SHUTOFF	☐ sı	TA STATUS EXTENSION	APD EXTENSION		
11/2/2012	WILDCAT WELL DETERMINATION		TUED	OTHER:		
			INEK	<u> </u>		
	the month of October 2012			Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY November 02, 2012		
NAME (PLEASE PRINT) Lindsey Frazier	PHONE NUM 720 929-6857	BER	TITLE Regulatory Analyst II			
SIGNATURE	120 323-0031		DATE			
N/A			11/2/2012			

Sundry Number: 32700 API Well Number: 43047523840000

	STATE OF UTAH				FORM 9	
ı	DEPARTMENT OF NATURAL RESOURG DIVISION OF OIL, GAS, AND MII	-	3	5.LEASE UTU-0	DESIGNATION AND SERIAL NUMBER: 11336	
SUNDR	Y NOTICES AND REPORTS	ON	WELLS	6. IF INDI	AN, ALLOTTEE OR TRIBE NAME:	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.					CA AGREEMENT NAME: AL BUTTES	
1. TYPE OF WELL Gas Well					NAME and NUMBER: 22-1J1CS	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	ISHORE, L.P.			9. API NUMBER: 43047523840000		
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th	h Street, Suite 600, Denver, CO, 8021		NE NUMBER: 720 929-6		and POOL or WILDCAT: AL BUTTES	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1877 FSL 2227 FEL				COUNTY		
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 01 Township: 10.0S Range: 22.0E Meri	idian:	S	STATE: UTAH		
11. CHECI	K APPROPRIATE BOXES TO INDICA	TE N	ATURE OF NOTICE, REPOR	T, OR O	THER DATA	
TYPE OF SUBMISSION			TYPE OF ACTION			
	ACIDIZE		ALTER CASING		CASING REPAIR	
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS		CHANGE TUBING		CHANGE WELL NAME	
Approximate date work will start.	CHANGE WELL STATUS		COMMINGLE PRODUCING FORMATIONS		CONVERT WELL TYPE	
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	□ F	RACTURE TREAT		NEW CONSTRUCTION	
	OPERATOR CHANGE		PLUG AND ABANDON		PLUG BACK	
SPUD REPORT	PRODUCTION START OR RESUME		RECLAMATION OF WELL SITE		RECOMPLETE DIFFERENT FORMATION	
Date of Spud:	REPERFORATE CURRENT FORMATION	П,	SIDETRACK TO REPAIR WELL		TEMPORARY ABANDON	
	TUBING REPAIR		/ENT OR FLARE		WATER DISPOSAL	
DRILLING REPORT Report Date:	WATER SHUTOFF		SI TA STATUS EXTENSION		APD EXTENSION	
12/3/2012						
	WILDCAT WELL DETERMINATION		OTHER	OTHE	!	
No Activity for t	COMPLETED OPERATIONS. Clearly show he month of November 201	2. W	/ell TD at 2,337.	oi FOF	Accepted by the Otah Division of I, Gas and Mining RECORD ONLY December 04, 2012	
NAME (PLEASE PRINT) Lindsey Frazier	PHONE NUME 720 929-6857	BER	TITLE Regulatory Analyst II			
SIGNATURE N/A			DATE 12/3/2012			

Sundry Number: 34359 API Well Number: 43047523840000

	STATE OF UTAH				FORM 9		
ı	DEPARTMENT OF NATURAL RESOUL DIVISION OF OIL, GAS, AND M		i i	5.LEASE UTU-0	DESIGNATION AND SERIAL NUMBER: 11336		
SUNDRY NOTICES AND REPORTS ON WELLS					AN, ALLOTTEE OR TRIBE NAME:		
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.					CA AGREEMENT NAME: AL BUTTES		
1. TYPE OF WELL Gas Well					8. WELL NAME and NUMBER: NBU 1022-1J1CS		
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	ISHORE, L.P.			9. API NUMBER: 43047523840000			
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th	n Street, Suite 600, Denver, CO, 802		ONE NUMBER: '9 720 929-6	9. FIELD and POOL or WILDCAT: 65NATURAL BUTTES			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1877 FSL 2227 FEL				COUNTY			
QTR/QTR, SECTION, TOWNSH	HP, RANGE, MERIDIAN: 01 Township: 10.0S Range: 22.0E Me	ridian:	S	STATE: UTAH			
11. CHECI	K APPROPRIATE BOXES TO INDIC	ATE N	ATURE OF NOTICE, REPOR	T, OR O	THER DATA		
TYPE OF SUBMISSION			TYPE OF ACTION				
	ACIDIZE		ALTER CASING		CASING REPAIR		
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS		CHANGE TUBING		CHANGE WELL NAME		
	CHANGE WELL STATUS		COMMINGLE PRODUCING FORMATIONS		CONVERT WELL TYPE		
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	□ F	FRACTURE TREAT		NEW CONSTRUCTION		
	OPERATOR CHANGE	F	PLUG AND ABANDON		PLUG BACK		
SPUD REPORT	PRODUCTION START OR RESUME	☐ F	RECLAMATION OF WELL SITE		RECOMPLETE DIFFERENT FORMATION		
Date of Spud:	REPERFORATE CURRENT FORMATION		SIDETRACK TO REPAIR WELL		TEMPORARY ABANDON		
	TUBING REPAIR		VENT OR FLARE	П	WATER DISPOSAL		
✓ DRILLING REPORT Report Date:	□ WATER SHUTOFF		SI TA STATUS EXTENSION		APD EXTENSION		
2/4/2013	WILDCAT WELL DETERMINATION				D. D. LATEROION		
			OTHER	OTHE	к:		
	completed operations. Clearly sho			oi FOF	Accepted by the Otah Division of I, Gas and Mining RECORD ONLY ebruary 13, 2013		
NAME (PLEASE PRINT) Lindsey Frazier	PHONE NUN 720 929-6857	IBER	TITLE Regulatory Analyst II				
SIGNATURE	120 323-0001		DATE				
N/A			2/4/2013				

RECEIVED: Feb. 04, 2013

Sundry Number: 35184 API Well Number: 43047523840000

	STATE OF UTAH				FORM 9	
ı	DEPARTMENT OF NATURAL RESOUF DIVISION OF OIL, GAS, AND M		i i	5.LEASE DE UTU-0113	SIGNATION AND SERIAL NUMBER: 336	
SUNDRY NOTICES AND REPORTS ON WELLS					, ALLOTTEE OR TRIBE NAME:	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.					A AGREEMENT NAME: BUTTES	
1. TYPE OF WELL Gas Well				8. WELL NAME and NUMBER: NBU 1022-1J1CS		
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	ISHORE, L.P.			9. API NUMBER: 43047523840000		
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th	n Street, Suite 600, Denver, CO, 802		ONE NUMBER: 79 720 929-6	9. FIELD and 5MATUERAL	d POOL or WILDCAT: BUTTES	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1877 FSL 2227 FEL				COUNTY: UINTAH		
QTR/QTR, SECTION, TOWNSH	HP, RANGE, MERIDIAN: 01 Township: 10.0S Range: 22.0E Mei	ridian:	S	STATE: UTAH		
11. CHECK	K APPROPRIATE BOXES TO INDICA	ATE N	ATURE OF NOTICE, REPOR	T, OR OTH	ER DATA	
TYPE OF SUBMISSION			TYPE OF ACTION			
	ACIDIZE		ALTER CASING	☐ ca	SING REPAIR	
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS		CHANGE TUBING	СН	ANGE WELL NAME	
	CHANGE WELL STATUS		COMMINGLE PRODUCING FORMATIONS	□ со	NVERT WELL TYPE	
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	□ F	FRACTURE TREAT	□ NE	W CONSTRUCTION	
	OPERATOR CHANGE	F	PLUG AND ABANDON	PLU	JG BACK	
SPUD REPORT	PRODUCTION START OR RESUME	□ F	RECLAMATION OF WELL SITE	□ RE	COMPLETE DIFFERENT FORMATION	
Date of Spud:	REPERFORATE CURRENT FORMATION		SIDETRACK TO REPAIR WELL		WPORARY ABANDON	
	TUBING REPAIR		VENT OR FLARE		TER DISPOSAL	
✓ DRILLING REPORT						
Report Date: 3/4/2013	WATER SHUTOFF	□ :	SI TA STATUS EXTENSION	L API	DEXTENSION	
	WILDCAT WELL DETERMINATION		OTHER	OTHER:		
No Activity for	COMPLETED OPERATIONS. Clearly show the month of February 201	3. W	ell TD at 2,348	Oil, O	cepted by the can Division of Gas and Mining RECORD ONLY rch 04, 2013	
NAME (PLEASE PRINT) Lindsey Frazier	PHONE NUM 720 929-6857	BER	TITLE Regulatory Analyst II			
SIGNATURE N/A			DATE 3/4/2013			

RECEIVED: Mar. 04, 2013

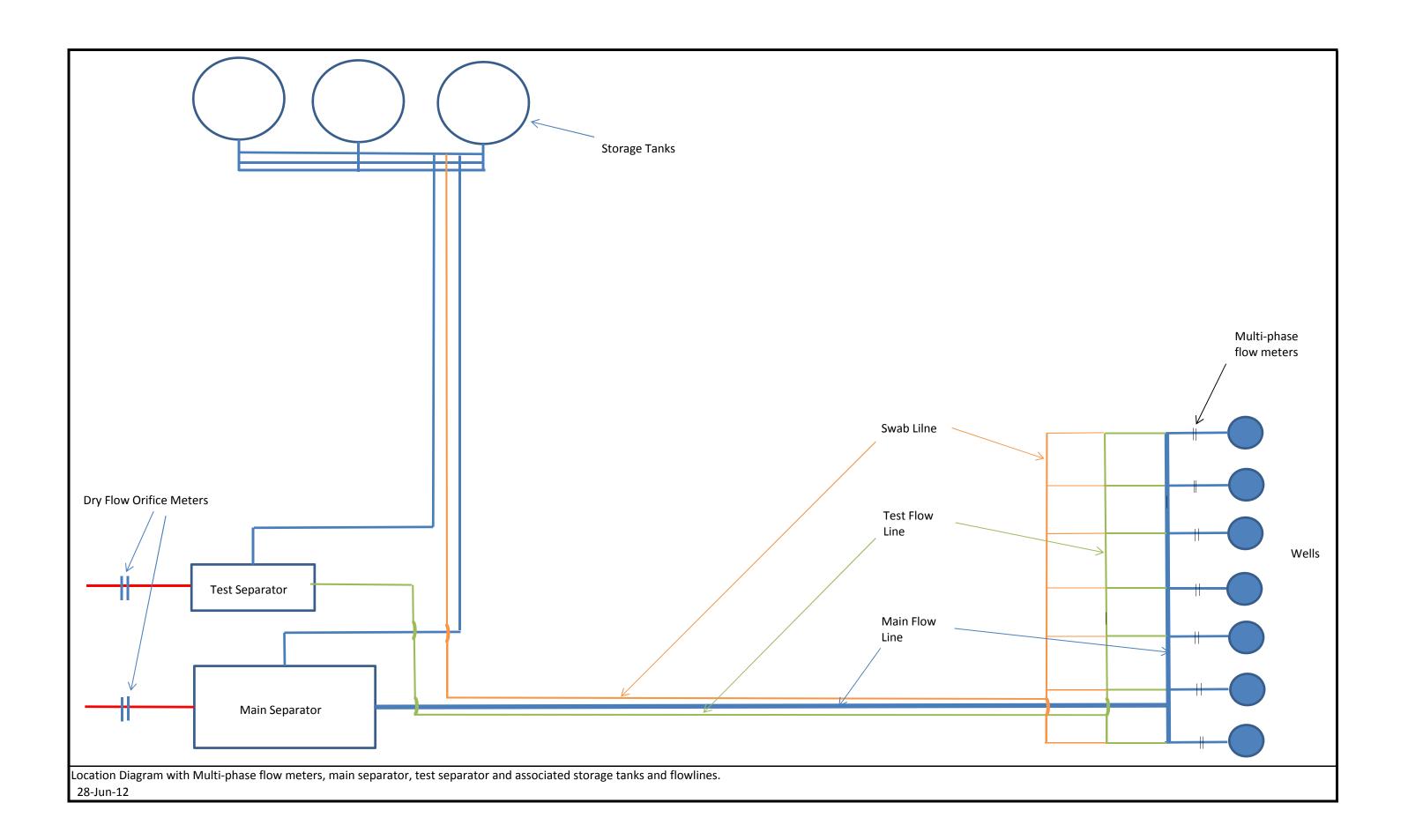
Sundry Number: 34699 API Well Number: 43047523840000 FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES		FORM 9	
	DIVISION OF OIL, GAS, AND MININ	G	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-011336	
SUNDR	N WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:		
Do not use this form for pro current bottom-hole depth, FOR PERMIT TO DRILL form	7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES			
1. TYPE OF WELL Gas Well		8. WELL NAME and NUMBER: NBU 1022-1J1CS		
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON		9. API NUMBER: 43047523840000		
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18tl	Ph h Street, Suite 600, Denver, CO, 80217 37	HONE NUMBER: 779 720 929-6	9. FIELD and POOL or WILDCAT: 5M&TUTRAL BUTTES	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1877 FSL 2227 FEL			COUNTY: UINTAH	
QTR/QTR, SECTION, TOWNSI	HIP, RANGE, MERIDIAN: 01 Township: 10.0S Range: 22.0E Meridian	n: S	STATE: UTAH	
11. CHEC	K APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPOF	RT, OR OTHER DATA	
TYPE OF SUBMISSION		TYPE OF ACTION		
The operator is refrom a pad, and to the pad based upo	COMPLETED OPERATIONS. Clearly show all puesting the option to measure allocate gas production to the on multi-phase flow measurem.	e total gas produced e individual wells on ent at each well and	CASING REPAIR CHANGE WELL NAME CONVERT WELL TYPE NEW CONSTRUCTION PLUG BACK RECOMPLETE DIFFERENT FORMATION TEMPORARY ABANDON WATER DISPOSAL APD EXTENSION OTHER: Multi-Phase Meter Depths, volumes, etc. Approved by the Utah Division of Oil, Gas and Mining Date: March 05, 2013	
Well API NBU 1022 NBU 1022-1J1C 4304752366 NB	2-01J NBU 1022-1J1BS 430475 S 4304752384 NBU 1022-01J U 1022-01J NBU 1022-1O1BS 1022-1O4BS 4304752367 NB 1022-1J4BS 4304739312	52359 NBU 1022-01J NBU 1022-1J4CS 4304752362 NBU	By: Day K Dunt	
NAME (PLEASE PRINT) Lindsey Frazier	PHONE NUMBER 720 929-6857	TITLE Regulatory Analyst II		
SIGNATURE N/A		DATE 2/13/2013		

Sundry Number: 34699 API Well Number: 43047523840000

The fluids from each well will be measured utilizing a multi-phase flow meter and then directed to a common separator for all wells on the pad. Liquids would be directed to tanks and the gas from all the wells measured through a calibrated orifice meter. The volume of gas measured through this meter, plus fuel gas consumed on location, will be the volume of gas that is produced from the pad. Gas volume for each individual well on the pad will be based on an allocation formula utilizing the total pad volume measured plus fuel gas consumed and the calculated volume from each well utilizing the multi-phase flow meters. The multi-phase flow meter volume calculation will be calibrated by periodic individual well tests.

RECEIVED: Feb. 13, 2013



State of Utah - Notification Form

Submitted By <u>DALTON KING</u> Phone Number <u>435-828-0985</u> Well Name/Number <u>NBU 1022-1J1CS</u> Qtr/Qtr <u>NW/SE</u> Section <u>1</u> Township <u>10 S</u> Range 22E Lease Serial Number <u>UTU-011336</u> API Number 4304752384
<u>Casing</u> – Time casing run starts, not cementing times.
Production Casing Other
Date/Time AM _ PM _
BOPE Initial BOPE test at surface casing point Other
Date/Time <u>3/3/2013</u> <u>15:00</u> AM ☐ PM ⊠
Rig Move Location To: MAR 0 2 2013
Date/Time AM _ PM _ DIV. OF OIL, GAS & MINING
Remarks <u>TIME IS ESTIMATED</u>

State of Utah - Notification Form

Submitted By <u>DALTON KING</u> Phone Number <u>435-828-0985</u> Well Name/Number <u>NBU 1022-1J1CS</u> Qtr/Qtr <u>NW/SE</u> Section <u>1</u> Township <u>10 S</u> Range 22E Lease Serial Number <u>UTU-011336</u> API Number 4304752384
<u>Casing</u> – Time casing run starts, not cementing times.
Production Casing Other
Date/Time <u>3/7/2013</u> <u>22:00</u> AM PM
BOPE Initial BOPE test at surface casing point Other
Date/Time AM
RECEIVED MAR 0.2 2013 Rig Move Location To: NBU 1022-1J4BS DIV. OF OIL, GAS & MINING
Date/Time <u>3/8/2013</u> <u>14:00</u> AM ☐ PM ⊠
Remarks TIME IS ESTIMATED

Sundry Number: 35522 API Well Number: 43047523840000 FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCE	ES .	FORM 9
ı	DIVISION OF OIL, GAS, AND MIN	ING	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-011336
SUNDR	Y NOTICES AND REPORTS (ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for procurrent bottom-hole depth, FOR PERMIT TO DRILL form	posals to drill new wells, significantly or reenter plugged wells, or to drill horizor n for such proposals.	deepen existing wells below tall laterals. Use APPLICATION	7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 1022-1J1CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	ISHORE, L.P.		9. API NUMBER: 43047523840000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18tl	h Street, Suite 600, Denver, CO, 80217	PHONE NUMBER: 3779 720 929-6	9. FIELD and POOL or WILDCAT: 5M&TUTRAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1877 FSL 2227 FEL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 01 Township: 10.0S Range: 22.0E Meridi	ian: S	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
3/13/2013	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
SUBSEQUENT REPORT Date of Work Completion:	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	U TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
Report Date:	WILDCAT WELL DETERMINATION	✓ other	OTHER: sidetrack
12 DESCRIBE PROPOSED OR	COMPLETED OPERATIONS. Clearly show a	Il nertinent details including dates	
We are unable to fr joints of drill pipe, t 6,852 feet to 7,266 15.8ppg plug with then sidetrack the w	ee the fish comprised of circ chrou-bit logging BHA, and conferences feet. The opoerator request 20% excess at 6,750 feet, fivell approximately 100 feet. Five and directional plan attach	ulating sub, overshot, 9 ore bit in the hole from authorization to set a or 500 feet fill above;	Approved by the Utah Division of Oil, Gas and Mining Date: March 20, 2013
NAME (PLEASE PRINT) Lindsey Frazier	PHONE NUMBE 720 929-6857	Regulatory Analyst II	
SIGNATURE N/A		DATE 3/13/2013	

Sundry Number: 35522 API Well Number: 43047523840000

NBU 1022-1J1CS ST Procedure

- **Fish Comprised of Circulating Sub, Overshot, 9 joints of Drill Pipe, Thru-Bit Logging BHA, and a core bit in the hole from 6,852' to 7,266'.
- 1. Notify the proper regulatory agencies of proposed operations
- 2. Document all procedures and verify proper equipment is on location before commencing operations.
- 3. Notify BJ of proposed cementing operations to include +/-500' of Class G cement pumped at 17.5 ppg for a kick off plug, a viscous pill, and +/-500' of Class G cement pumped at 15.8ppg.
- 4. Hold PJSM and discuss all operations to include pumping cement, testing lines, and sidetracking.
- 5. PU drill pipe from fish at 6,852' and perform 600' wiper trip.
- 6. RU cementing head and lines and pressure test to 3,000 psi.
- 7. Trip pipe back down to 6750' and pump 30bbl spacer ahead.
- 8. Set a 15.8ppg plug with 20% excess at 6750', for 500' fill above.
- 9. Slowly pull out of the plug at 1-2 minutes per joint.
- 10. Pull up to 6,100' and reverse circulate to make sure cement is out of drillpipe,
- 11. Spot high viscous pill (70-80cp at 12ppg) up to base of surface casing.
- 12. Pull pipe into casing shoe to ensure clean hole, then drop to 2,760' and pump kickoff plug at 17.5ppg and 20% excess.
- 13. Slowly pull out of the plug at 1-2 minutes per joint. Break circulation.
- 14. Pull out of hole and LD drill pipe.
- 15. WOC for 24 hours. Actual WOC time will be determined with the field blend UCS test results.
- 16. PU directional tools and sidetrack bit and TIH to top of cement.
- 17. Sidetrack guidelines: PU BHA and RIH w/ BHA to top of cement. Drill firm cement and begin working 20' Trough for Sidetrack. Time Drill to get sidetracked from Pilot Hole in the following increments:

Sundry Number: 35522 API Well Number: 43047523840000

```
5 min/inch for 5' (1.0 fph)
4 min/inch for 5' (1.25 fph)
3 min/inch for 5' (1.67 fph)
2 min/inch for 5' (2.5 fph)
1 min/inch for 10' (5.0 fph)
```

- 18. Control drill until successfully sidetrack, once 100% formation is achieved in returns and 50'
- 19. POOH and LD sidetrack assembly.

away from existing wellbore.

- 20. PU directional tools and drill to new PBHL as found on the directional plan.
- 21. Final separation from the fish will be \sim 100' feet or greater as designed.

Sundry Number: 35522 API Well Number: 43047523840000

1

5D Plan Report

5D Plan Report

Anadarko Petroleum

Field Name: Greater Natural Buttes_Anadarko_NAD 27

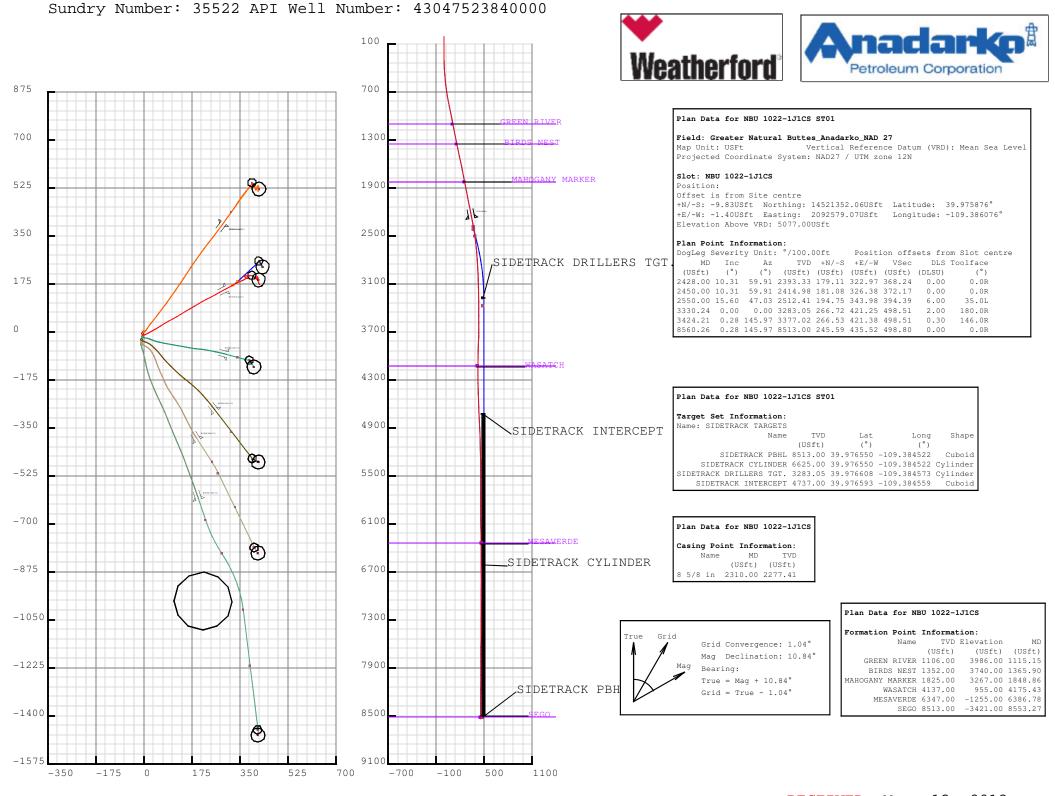
Site Name: NBU 1022-1J

Well Name: NBU 1022-1J1CS ST01

Plan: *ST01 V2*



Weatherford International Limited 5D 7.5.3: 11 March 2013, 21:24:19 UTC



5D Plan Report



Plan Surveys for the NBU 1022-1J1CS ST01

 Units: US ft
 North Reference : True
 Convergence Angle : 1.04

 Northing : 14521361.92 US ft
 Latitude : 39.975903

 Site Name
 Elevation above:5077.00 US ft
 Longitude : -109.386071

NBU 1022-1J

Well Name

Position (Offsets relative to Site Centre)

+N / -S: -9.83 US ft
Northing: 14521352.06 US ft
Latitude: 39.975876

Fee June 1.40 US ft
Longitude: -109.386076

NBU 1022-1J1CS

Slot TVD Reference: Ground Elevation
Elevation above: 5077.00 US ft

Comment:

Type: Sidetrack UWI: Plan: ST01 V2

Parent: NBU 1022-1J1CS Tie Point Method: MD Tie Point: 2428.00 US ft

Rig Height *Drill Floor*: 15.00 US ft **Relative to**: 5092.00 US ft **Comment**:

NBU 1022-1J1CS ST01 Closure Distance : 130.715 US ft Closure Azimuth : 59.4302°

Vertical Section (Position of Origin Relative to Slot)

Magnetic Parameters

 Model: BGGM
 Field Strength: 52140.8nT
 Dec: 10.84°
 Dip: 65.81°
 Date: 31/Jan/2013

5D Plan Report

Target Set

Name: SIDETRACK TARGETS Number of Targets: 4

Comment:

Comment :				
TargetName:			Position (Relative to centre)	
SIDETRACK PBHL			Northing : 14521605.50 US ft	Latitude : 39°58'35.580978"
Shape:	+E / -W : 435.52 US ft		Easting : 2093010.07US ft	Longitude: -109°23'4.278453"
	TVD (Drill Floor): 8513.00 US ft		
Cuboid				
	Orientation	Azimuth: 0.00°	Inclination: 0.00°	
	Dimensions	Length: 1.00 US ft	Breadth: 1.00 US ft	Height: 1.00 US ft
TargetName:			Position (Relative to centre)	
SIDETRACK	+N / -S : 260.99		Northing: 14521620.71 US ft	Latitude : 39°58'35.733196"
INTERCEPT	+E / -W : 425.1	12 US ft	Easting : 2092999.39US ft	Longitude : -109°23'4.412059"
Shape:	TVD (Drill Floor): 4737.00 US ft		
Cuboid				
	Orientation	Azimuth: 0.00°	Inclination: 0.00°	
	Dimensions	Length: 1.00 US ft	Breadth: 1.00 US ft	Height: 1.00 US ft
			Position (Relative to centre)	
Target Name:	+N / -S : 245.59U	JS ft	Northing: 14521605.50US ft	Latitude : 39°58'35.580978"
SIDETRACK CYLINDER	+E / -W : 435.52	PUS ft	Easting : 2093010.07 US ft	Longitude: -109°23'4.278453"
Shape:	TVD (Drill Floor)): 6625.00 US ft		
Cylinder				
	Orientation	Azimuth: 1.04°	Inclination: 0.00°	
	Dimensions	Radius: 25.00 US ft	Length : 3776.00 US ft	
Target Names	. N. / O. 266 721	10.0	Position (Relative to centre)	L .** L 20050125 70002211
Target Name:	+N / -S : 266.72U	JS ft	Northing: 14521626.37US ft	Latitude : 39°58'35.789833"
SIDETRACK DRILLERS TGT.	+E / -W : 421.25	SUS ft	Easting : 2092995.42 US ft	Longitude: -109°23'4.461776"
Shape:	TVD (Drill Floor)) : 3283.05 US ft		
- Jiidpei				

Weatherford International Limited

5D 7.5.3: 11 March 2013, 21:24:19 UTC

5D Plan Report

١	Cylinder				
١		Orientation	Azimuth: 1.04°	Inclination: 0.00°	
١		Dimensions	Radius: 15.00 US ft	Length: 1.00 US ft	l

iant Bainta (Balatio	is to south TVD.	elative to Drill Floor							
MD	Inc	Az	TVD	N.Offset	E.Offset	DLS	T.Face	VS	Comment
(US ft)	(°)	(°)	(US ft)	(US ft)	(US ft)	(°/100 US ft)	(°)	(US ft)	Comment
2428.00	10.31	59.91	2393.33	179.11	322.97	0.00	0.00	369.30	TIE ON
2450.00	10.31	59.91	2414.98	181.08	326.38	0.00	0.00	373.24	KOP
2550.00	15.60	47.03	2512.41	194.75	343.98	6.00	325.00	395.28	BEGIN DROP
3330.24	0.00	0.00	3283.05	266.72	421.25	2.00	180.00	497.94	BEGIN DRIF
3424.21	0.28	145.97	3377.02	266.53	421.38	0.30	145.97	497.96	HOLD
8560.26	0.28	145.97	8513.00	245.59	435.52	0.00	0.00	499.99	TD
erpolated Points (I	Relative to centre, 1	「VD relative to Drill F	loor)						
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	Comment
0.00	0.00	0.00	-0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.34	182.24	100.00	-0.25	-0.01	0.40	182.24	-0.13	
200.00	0.36	144.84	200.00	-1.02	0.06	0.87	224.86	-0.45	
300.00	1.47	85.48	299.98	-1.24	1.58	0.85	310.11	0.76	
400.00	2.77	66.85	399.92	-0.23	4.85	1.89	345.69	4.11	
500.00	4.74	62.84	499.70	2.59	10.73	2.05	352.32	10.61	
600.00	6.66	61.17	599.20	7.29	19.51	1.87	354.87	20.57	
700.00	8.67	61.67	698.31	13.68	31.18	2.06	3.77	33.88	
800.00	10.82	59.28	796.86	22.01	45.91	2.21	346.55	50.80	
900.00	11.37	58.59	894.98	31.95	62.41	0.34	0.00	70.05	
1000.00	11.43	58.68	992.98	42.42	79.36	1.15	141.49	89.97	
1100.00	10.88	61.51	1091.13	51.87	96.02	0.20	21.45	109.12	
1115.15	10.91	61.57	1106.00	53.24	98.53	0.20	0.00	111.98	GREEN RIVE
1200.00	11.14	61.15	1189.29	60.95	112.78	0.48	323.21	128.17	
1300.00	11.24	58.82	1287.37	70.66	129.73	0.66	251.86	147.71	
1365.90	11.42	57.95	1352.00	77.47	140.62	1.03	18.56	160.54	BIRDS NEST
1400.00	11.76	58.49	1385.41	81.07	146.45	1.03	18.14	167.39	
1500.00	11.98	59.62	1483.23	91.73	164.26	0.23	116.61	188.14	
1600.00	12.19	60.68	1581.02	102.13	182.37	0.37	38.48	209.02	
1700.00	11.34	58.14	1678.90	112.48	200.05	1.15	210.20	229.50	
1800.00	10.92	59.96	1777.03	122.44	216.52	1.11	82.22	248.74	

Weatherford International Limited 5D 7.5.3: 11 March 2013, 21:24:19 UTC

5D Plan Report

Interpolated Points (I	Relative to centre, T	VD relative to Drill F	loor)						
MD	Inc	Az	TVD	N.Offset	E.Offset	DLS	T.Face	VS	Comment
(US ft)	(°)	(°)	(US ft)	(US ft)	(US ft)	(°/100 US ft)	(°)	(US ft)	
1848.86	11.01	62.78	1825.00	126.89	224.67	1.11	81.65	258.03	MAHOGANY MARKER:
1900.00	11.14	64.36	1875.19	131.20	233.49	0.34	326.53	267.83	
2000.00	11.22	62.62	1973.27	139.83	250.99	0.80	239.40	287.31	
2100.00	11.03	60.07	2071.41	149.12	267.78	0.20	300.37	306.50	
2200.00	11.19	61.31	2169.54	158.70	284.47	0.68	72.44	325.74	
2282.00	11.43	63.50	2249.95	166.10	298.72	0.55	49.55	341.79	
2300.00	11.29	63.10	2267.60	167.70	301.89	0.90	209.42	345.33	0.5/0.1
2310.00	11.21	62.87	2277.41	168.58	303.63	0.90	209.82	347.28	8 5/8 in
2400.00	10.52	60.66	2365.79	176.60	318.58	0.90	210.04	364.24	=== ou
2428.00	10.31	59.91	2393.33	179.11	322.97	0.90	212.21	369.30	TIE ON
2450.00	10.31	59.91	2414.98	181.08	326.38	0.00	0.00	373.24	КОР
2500.00	12.88	52.17	2463.95	186.75	334.66	6.00	325.00	383.23	
2550.00	15.60	47.03	2512.41	194.75	343.98	6.00	332.58	395.28	BEGIN DROP
2600.00	14.60	47.03	2560.69	203.63	353.51	2.00	180.00	407.95	
2700.00	12.60	47.03	2657.88	219.66	370.73	2.00	180.00	430.82	
2800.00	10.60	47.03	2755.83	233.37	385.44	2.00	180.00	450.37	
2900.00	8.60	47.03	2854.42	244.75	397.65	2.00	180.00	466.59	
3000.00	6.60	47.03	2953.53	253.77	407.34	2.00	180.00	479.46	
3100.00	4.60	47.03	3053.05	260.42	414.48	2.00	180.00	488.95	
3200.00	2.60	47.03	3152.85	264.71	419.08	2.00	180.00	495.07	
3300.00	0.60	47.03	3252.80	266.62	421.13	2.00	180.00	497.79	
3330.24	0.00	0.00	3283.05	266.72	421.25	2.00	180.00	497.94	BEGIN DRIFT
3400.00	0.21	145.97	3352.80	266.62	421.32	0.30	145.97	497.95	
3424.21	0.28	145.97	3377.02	266.53	421.38	0.30	0.00	497.96	HOLD
3500.00	0.28	145.97	3452.80	266.22	421.59	0.00	0.00	497.99	
3600.00	0.28	145.97	3552.80	265.82	421.86	0.00	0.00	498.03	
3700.00	0.28	145.97	3652.80	265.41	422.14	0.00	0.00	498.07	
3800.00	0.28	145.97	3752.80	265.00	422.41	0.00	0.00	498.11	
3900.00	0.28	145.97	3852.80	264.59	422.69	0.00	0.00	498.15	
4000.00	0.28	145.97	3952.80	264.19	422.96	0.00	0.00	498.19	
4100.00	0.28	145.97	4052.79	263.78	423.24	0.00	0.00	498.23	
4200.00	0.28	145.97	4152.79	263.37	423.51	0.00	0.00	498.27	
4300.00	0.28	145.97	4252.79	262.96	423.79	0.00	0.00	498.31	
4400.00	0.28	145.97	4352.79	262.55	424.07	0.00	0.00	498.35	
4500.00	0.28	145.97	4452.79	262.15	424.34	0.00	0.00	498.39	
4600.00	0.28	145.97	4552.79	261.74	424.62	0.00	0.00	498.43	
4700.00	0.28	145.97	4652.79	261.33	424.89	0.00	0.00	498.47	
4800.00	0.28	145.97	4752.79	260.92	425.17	0.00	0.00	498.51	
4900.00	0.28	145.97	4852.79	260.52	425.44	0.00	0.00	498.55	
5000.00	0.28	145.97	4952.78	260.11	425.72	0.00	0.00	498.58	
5100.00	0.28	145.97	5052.78	259.70	425.99	0.00	0.00	498.62	

Weatherford International Limited 5D 7.5.3: 11 March 2013, 21:24:19 UTC

5D Plan Report

Interpolated Points (I	Relative to centre,	TVD relative to Drill F	loor)						
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	Comment
5200.00	0.28	145.97	5152.78	259.29	426.27	0.00	0.00	498.66	
5300.00	0.28	145.97	5252.78	258.88	426.54	0.00	0.00	498.70	
5400.00	0.28	145.97	5352.78	258.48	426.82	0.00	0.00	498.74	
5500.00	0.28	145.97	5452.78	258.07	427.09	0.00	0.00	498.78	
5600.00	0.28	145.97	5552.78	257.66	427.37	0.00	0.00	498.82	
5700.00	0.28	145.97	5652.78	257.25	427.64	0.00	0.00	498.86	
5800.00	0.28	145.97	5752.77	256.85	427.92	0.00	0.00	498.90	
5900.00	0.28	145.97	5852.77	256.44	428.20	0.00	0.00	498.94	
6000.00	0.28	145.97	5952.77	256.03	428.47	0.00	0.00	498.98	
6100.00	0.28	145.97	6052.77	255.62	428.75	0.00	0.00	499.02	
6200.00	0.28	145.97	6152.77	255.21	429.02	0.00	0.00	499.06	
6300.00	0.28	145.97	6252.77	254.81	429.30	0.00	0.00	499.10	
6400.00	0.28	145.97	6352.77	254.40	429.57	0.00	0.00	499.14	
6500.00	0.28	145.97	6452.77	253.99	429.85	0.00	0.00	499.18	
6600.00	0.28	145.97	6552.76	253.58	430.12	0.00	0.00	499.22	
6700.00	0.28	145.97	6652.76	253.18	430.40	0.00	0.00	499.26	
6800.00	0.28	145.97	6752.76	252.77	430.67	0.00	0.00	499.30	
6900.00	0.28	145.97	6852.76	252.36	430.95	0.00	0.00	499.34	
7000.00	0.28	145.97	6952.76	251.95	431.22	0.00	0.00	499.38	
7100.00	0.28	145.97	7052.76	251.54	431.50	0.00	0.00	499.41	
7200.00	0.28	145.97	7152.76	251.14	431.77	0.00	0.00	499.45	
7300.00	0.28	145.97	7252.76	250.73	432.05	0.00	0.00	499.49	
7400.00	0.28	145.97	7352.76	250.32	432.33	0.00	0.00	499.53	
7500.00	0.28	145.97	7452.75	249.91	432.60	0.00	0.00	499.57	
7600.00	0.28	145.97	7552.75	249.51	432.88	0.00	0.00	499.61	
7700.00	0.28	145.97	7652.75	249.10	433.15	0.00	0.00	499.65	
7800.00	0.28	145.97	7752.75	248.69	433.43	0.00	0.00	499.69	
7900.00	0.28	145.97	7852.75	248.28	433.70	0.00	0.00	499.73	
8000.00	0.28	145.97	7952.75	247.87	433.98	0.00	0.00	499.77	
8100.00	0.28	145.97	8052.75	247.47	434.25	0.00	0.00	499.81	
8200.00	0.28	145.97	8152.75	247.06	434.53	0.00	0.00	499.85	
8300.00	0.28	145.97	8252.74	246.65	434.80	0.00	0.00	499.89	
8400.00	0.28	145.97	8352.74	246.24	435.08	0.00	0.00	499.93	
8500.00	0.28	145.97	8452.74	245.84	435.35	0.00	0.00	499.97	
8560.26	0.28	145.97	8513.00	245.59	435.52	0.00	0.00	499.99	TD

Weatherford International Limited 5D 7.5.3: 11 March 2013, 21:24:19 UTC



NWSE S-OI TIOS RAZE

XTREME 12 CASING

Anadarko - Xtreme 12 < xtreme 12@gesmail.net >

Tue, Mar 12, 2013 at 3:53 PM

To: ALEXIS HUEFNER <alexishuefner@utah.gov>, Carol Daniels <caroldaniels@utah.gov>, Dan Jarvis <danjarvis@utah.gov>, David Hackford <davidhackford@utah.gov>

WE HAVE NOT BEEN ABLE TO COMPLETE THE CASING JOB AS NOTIFIED ON THE NBU 1022-1J1CS WELL

API# 43-047-52384. WE ARE IN FISHING OPERATION AND WILL HAVE TO DO AN UPDATE CASING NOTIFICATION AS SOON AS CONDITIONS ALLOW.

THANK YOU

DALTON KING

XTREME 12

XTREME12@GESMAIL.NET

OFFICE (435) 828-0985

CELL (435)828-0991

RECEIVED
MAR 1 2 2013

DIV. OF OIL, GAS & MINING

Anadarko Confidentiality Notice: This electronic transmission and any attached documents or other writings are intended only for the person or entity to which it is addressed and may contain information that is privileged, confidential or otherwise protected from disclosure. If you have received this communication in error, please immediately notify sender by return e-mail and destroy the communication. Any disclosure, copying, distribution or the taking of any action concerning the contents of this communication or any attachments by anyone other than the named recipient is strictly prohibited.

Sundry Number: 36225 API Well Number: 43047523840000

	STATE OF UTAH			FORM S
ι	DEPARTMENT OF NATURAL RESOUR DIVISION OF OIL, GAS, AND MI			5.LEASE DESIGNATION AND SERIAL NUMBER UTU-011336
SUNDR	Y NOTICES AND REPORTS	ON WELLS		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	posals to drill new wells, significantly reenter plugged wells, or to drill horiz n for such proposals.			7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well				8. WELL NAME and NUMBER: NBU 1022-1J1CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	ISHORE, L.P.			9. API NUMBER: 43047523840000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th	n Street, Suite 600, Denver, CO, 8021	PHONE NUMBER: 7 3779	720 929-6	9. FIELD and POOL or WILDCAT: 5NATERAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1877 FSL 2227 FEL				COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSH	flp, RANGE, MERIDIAN: 11 Township: 10.0S Range: 22.0E Mer	dian: S		STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTIC	E, REPOR	₹T, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF AC	TION	
	ACIDIZE	ALTER CASING		CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING		CHANGE WELL NAME
Approximate date work will start.	CHANGE WELL STATUS	COMMINGLE PRODUCING FOR	RMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT		☐ NEW CONSTRUCTION
	OPERATOR CHANGE	PLUG AND ABANDON		PLUG BACK
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE		RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL		TEMPORARY ABANDON
✓ DRILLING REPORT	L TUBING REPAIR			☐ WATER DISPOSAL ☐
Report Date: 4/3/2013	WATER SHUTOFF	SI TA STATUS EXTENSION		APD EXTENSION
	WILDCAT WELL DETERMINATION	OTHER		OTHER:
No Activity fo	COMPLETED OPERATIONS. Clearly shown the month of March 2013	. Well TD at 8,575		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY April 03, 2013
NAME (PLEASE PRINT) Teena Paulo	PHONE NUM 720 929-6236	Staff Regulatory S	Specialist	
SIGNATURE N/A		DATE 4/3/2013		

Sundry Number: 37375 API Well Number: 43047523840000

	STATE OF UTAH				FORM 9
ı	DEPARTMENT OF NATURAL RESOUR DIVISION OF OIL, GAS, AND MI		6	5.LEASE UTU-0	DESIGNATION AND SERIAL NUMBER: 11336
SUNDR	Y NOTICES AND REPORTS	ON	WELLS	6. IF IND	IAN, ALLOTTEE OR TRIBE NAME:
	posals to drill new wells, significantly reenter plugged wells, or to drill horiz n for such proposals.				r CA AGREEMENT NAME: AL BUTTES
1. TYPE OF WELL Gas Well				1	NAME and NUMBER: 022-1J1CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	ISHORE, L.P.			9. API NU 43047	JMBER: 523840000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th	n Street, Suite 600, Denver, CO, 8021		ONE NUMBER: 720 929-6	1	and POOL or WILDCAT: AL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1877 FSL 2227 FEL				COUNTY	
QTR/QTR, SECTION, TOWNSH	HP, RANGE, MERIDIAN: 01 Township: 10.0S Range: 22.0E Mer	idian:	S	STATE: UTAH	
11. CHECI	K APPROPRIATE BOXES TO INDICA	TE N	ATURE OF NOTICE, REPOR	T, OR O	THER DATA
TYPE OF SUBMISSION			TYPE OF ACTION		
NOTICE OF INTENT Approximate date work will start: SUBSEQUENT REPORT Date of Work Completion: SPUD REPORT Date of Spud: ✓ DRILLING REPORT Report Date: 5/3/2013	CHANGE TO PREVIOUS PLANS CHANGE WELL STATUS DEEPEN OPERATOR CHANGE PRODUCTION START OR RESUME REPERFORATE CURRENT FORMATION TUBING REPAIR WATER SHUTOFF WILDCAT WELL DETERMINATION	((((((((((CHANGE TUBING COMMINGLE PRODUCING FORMATIONS FRACTURE TREAT PLUG AND ABANDON RECLAMATION OF WELL SITE SIDETRACK TO REPAIR WELL VENT OR FLARE SI TA STATUS EXTENSION DTHER	OTHE	CHANGE WELL NAME CONVERT WELL TYPE NEW CONSTRUCTION PLUG BACK RECOMPLETE DIFFERENT FORMATION TEMPORARY ABANDON WATER DISPOSAL APD EXTENSION ER:
	COMPLETED OPERATIONS. Clearly show			FOI	Accepted by the Utah Division of il, Gas and Mining R RECORD ONLY May 09, 2013
NAME (PLEASE PRINT) Teena Paulo	PHONE NUM 720 929-6236	BER	TITLE Staff Regulatory Specialist		
SIGNATURE N/A			DATE 5/3/2013		

RECEIVED: May. 03, 2013

Sundry Number: 38800 API Well Number: 43047523840000

	STATE OF UTAH				FORM 9
1	DEPARTMENT OF NATURAL RESOUR DIVISION OF OIL, GAS, AND MI			5.LEASE UTU-01	DESIGNATION AND SERIAL NUMBER: 1336
SUNDR	RY NOTICES AND REPORTS	ON V	WELLS	6. IF INDI	AN, ALLOTTEE OR TRIBE NAME:
	oposals to drill new wells, significantly reenter plugged wells, or to drill horize n for such proposals.				CA AGREEMENT NAME: AL BUTTES
1. TYPE OF WELL Gas Well					NAME and NUMBER: 22-1J1CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	ISHORE, L.P.			9. API NU 430475	MBER: :23840000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18tl	h Street, Suite 600, Denver, CO, 8021		NE NUMBER: 9 720 929-6		and POOL or WILDCAT: AL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1877 FSL 2227 FEL				COUNTY: UINTAH	
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NWSE Section: (HIP, RANGE, MERIDIAN: 01 Township: 10.0S Range: 22.0E Meri	idian: S	3	STATE: UTAH	
11. CHEC	K APPROPRIATE BOXES TO INDICA	ATE NA	ATURE OF NOTICE, REPOR	T, OR O	THER DATA
TYPE OF SUBMISSION			TYPE OF ACTION		
	CHANGE TO PREVIOUS PLANS CHANGE WELL STATUS DEEPEN OPERATOR CHANGE PRODUCTION START OR RESUME REPERFORATE CURRENT FORMATION TUBING REPAIR WATER SHUTOFF WILDCAT WELL DETERMINATION COMPLETED OPERATIONS. Clearly show completing the well. Well T	CH C		epths, vol	CASING REPAIR CHANGE WELL NAME CONVERT WELL TYPE NEW CONSTRUCTION PLUG BACK RECOMPLETE DIFFERENT FORMATION TEMPORARY ABANDON WATER DISPOSAL APD EXTENSION R: LUMBES, etc. ACCEPTED by the Jtah Division of I, Gas and Mining R RECORD ONLY UNE 11, 2013
NAME (PLEASE PRINT)	PHONE NUMI	BER	TITLE		
SIGNATURE	720 929-6501		Regulatory Specialist DATE		
N/A		- 1	6/5/2013		

Sundry Number: 39287 API Well Number: 43047523840000

	STATE OF UTAH		FORM 9
ι	DEPARTMENT OF NATURAL RESOUR DIVISION OF OIL, GAS, AND MI		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-011336
SUNDR	RY NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	posals to drill new wells, significantly reenter plugged wells, or to drill horizon n for such proposals.		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 1022-1J1CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	ISHORE, L.P.		9. API NUMBER: 43047523840000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th	h Street, Suite 600, Denver, CO, 8021	PHONE NUMBER: 7 3779 720 929-0	9. FIELD and POOL or WILDCAT: 5NATERAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1877 FSL 2227 FEL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 01 Township: 10.0S Range: 22.0E Meri	dian: S	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
SPUD REPORT	✓ PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
6/21/2013	WILDCAT WELL DETERMINATION	OTHER	OTHER:
THE SUBJECT WEL	COMPLETED OPERATIONS. Clearly show L WAS PLACED ON PRODUC WELL HISTORY WILL BE SUBICOMPLETION REPORT.	CTION ON 6/21/2013. THE MITTED WITH THE WELL	<u> </u>
NAME (PLEASE PRINT) Teena Paulo	PHONE NUMI 720 929-6236	BER TITLE Staff Regulatory Specialist	
SIGNATURE N/A		DATE 6/24/2013	

Form 3160-4 (August 200

UNITED STATES

FORM APPROVED OMB No. 1004-0137 Expires: July 31, 2010

WI	ELL COMPLETION OR RECOMPLETION REPORT AND LOG	5. I
	BUREAU OF LAND MANAGEMENT	
07)	DEPARTMENT OF THE INTERIOR	
	CTITLE STITLES	

	WELL (COMPL	ETION C	R REC	COMP	LETIC	N RE	EPOR	?T	AND L	.OG				ease Serial N TU011336		
1a. Type o	_	Oil Well	_		Dry				lua	. Dools	□ D:	eff D	OCT IN	6. If	Indian, Allo	ottee o	r Tribe Name
b. Type o	of Completion	_	New Well er	□ Work		☐ De	ереп	Пг	iug	Back	ט ט	111. K	esvi.	7. U	nit or CA A	greem	ent Name and No.
2. Name of KERR	f Operator MCGEE OIL	_&GAS C	NSHOREÆ	-∰ail: te		ntact: TE ulo@ana)						ease Name a IBU 1022-		
3. Address	PO BOX O		217					Phone: 720-9		o. (include 9-6236	area o	ode)		9. A	PI Well No.		43-047-52384
4. Location	n of Well (Re	port locat	ion clearly an	d in acco	rdance	with Fede	eral req	uiremei	nts))*				10. I	Field and Po	ol, or	Exploratory
At surfa	ace NWSE	1877FS	SL 2227FEL	39.9758	41 N La	at, 109.3	86757	W Lor	า					11. S	Sec., T., R.,	M., or	Block and Survey 0S R22E Mer SLB
At top j	prod interval i	1			FSL 18	15FEL								12. (County or Pa		13. State
At total	1	SE 2059	FSL 1804FI				-	44.5		G 1				_	INTÁH	DD 111	UT
14. Date S 08/30/2	pudded 2012			ate T.D. I /06/2013				\Box D	&	Complete A	ed Ready	to Pr	od.	17. I	Elevations (1 509	DF, KI 92 KB	B, RT, GL)*
18. Total I	Depth:	MD TVD	8575 8542		19. Plu	g Back T	.D.:	MD TVE)	85 84			20. Dep	th Bri	dge Plug Se		MD TVD
21. Type F CBL/G	Electric & Oth SR/CCL/TEM	er Mecha P	nical Logs R	un (Subm	nit copy	of each)					7	Vas D	vell cored OST run? ional Sur		⊠ No i	☐ Yes	s (Submit analysis) s (Submit analysis) s (Submit analysis)
23. Casing a	and Liner Reco	ord (Repo	ort all strings	set in we			_			ı							1
Hole Size	Size/G		Wt. (#/ft.)	Top (MD)		Bottom (MD)	1 -	Cemen Depth	ter	No. o Type o	f Sks. of Cem		Slurry (BB		Cement 7	Гор*	Amount Pulled
11.000	_	25 IJ-55	i		0	2314	+					600				0	
7.875	5 4.	500 I-80	11.6		20	8550						1434				1010	
					+												
24. Tubing	g Record																
Size	Depth Set (M		acker Depth	(MD)	Size	Dept	h Set (N	MD)	P	acker Dep	oth (M	D)	Size	De	pth Set (MI	D)	Packer Depth (MD)
2.375	ing Intervals	7973				126	Darfor	ation Re	200	ard.							
	Formation		Ton		Botton	_			_	Interval		Т	Size	Τ,	No. Holes	I	Perf. Status
A)	WASA	ATCH	Тор	5833		239	r	errorau	ea .	5833 T	O 623	9	0.3	$\overline{}$		OPE	
B)	MESAVE			6577		399				6577 T		\neg	0.3	$\overline{}$		OPE	
C)																	
D)																	
27. Acid, F	Fracture, Treat	ment, Cer	ment Squeeze	e, Etc.													
	Depth Interva			0.000.00		141100.0	200.10			nount and			aterial				
	58	33 TO 8	399 PUMP 1	2,003 BB	LS SLIC	K H2O &	266,46	8 LBS	30/	50 OTTAV	VA SAI	ND					
28. Produc	tion - Interval	A	<u> </u>														
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF		Water BBL		l Gr	avity		Gas Gravity		Producti	on Method		
06/21/2013	1	24		13.0	- 1	95.0	0.0		л. г	411	ľ	Jiavity			FLOV	VS FRO	OM WELL
Choke	Tbg. Press.	Csg.	24 Hr.	Oil	Gas		Water		s:O	il	1	Well St	atus				
Size 20/64	Flwg. 1483 SI	1884.0	Rate	BBL 13	MCF 2	295	BBL 0	Ra	tio			Р	GW				
	tion - Interva											-					
Date First	Test	Hours	Test	Oil	Gas		Water			avity		Gas		Producti	on Method		
Produced	Date	Tested	Production	BBL	MCF		BBL		orr. A			Gravity					
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF		Water BBL		s:Oi tio	11	[Well Sta	atus				
			-						_								

	duction - Inter	val C											
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravit	у	Production Method			
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water Gas:Oil Well S BBL Ratio			Status	tatus			
28c. Prod	duction - Inter	val D			<u> </u>		_						
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravit	у	Production Method			
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well S	Status				
29. Dispo	osition of Gas(Sold, used	for fuel, vent	ed, etc.)									
30. Sumr	nary of Porou	s Zones (Ir	nclude Aquife	rs):					31. For	mation (Log) Markers	S		
tests,	all important including dep ecoveries.	zones of p th interval	orosity and cotested, cushic	ontents there on used, time	eof: Core e tool ope	d intervals and en, flowing an	d all drill-stem id shut-in pressures						
	Formation		Тор	Bottom		Descript	ions, Contents, etc.			Name		Top Meas. Depth	
32. Addii	tional remarks	(include p	olugging proce	edure):					MA WA	RD'S NEST HOGANY ASATCH ESAVERDE		1551 1867 4191 6322	
The formal of the fit; LT histo	first 210 ft of e surface hol C csg was ri ry, perforatio oment out of	the surface was dril un from 50 n report a	ce hole was led with an 1 015 ft. to 855 and final surv	drilled with 11 inch bit. 50 ft. Attac rey. Due to	DQX cso hed is th unsucce	g was run fro ne chronolog essful attemp							

Name (please print)	TEENA PAULO	Title STAFF REGULATORY SPECIALIST
Signature	(Electronic Submission)	Date 07/24/2013

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fradulent statements or representations as to any matter within its jurisdiction.

				U	S ROC	KIES RI	EGION	
				Opera	tion S	Summa	ry Report	
Well: NBU 1022-	1J1CS BLUE						Spud Date: 9/2	3/2012
Project: UTAH-U	INTAH		Site: NBU	1022-01	J PAD			Rig Name No: PROPETRO 11/11, XTC 12/12
Event: DRILLING	<u> </u>		Start Date	· 9/9/201	2			End Date: 3/21/2013
	KB @5,092.00usft (al	bove Mean S	- 1			0/S/22/E/	/0/0/26/PM/S/18	
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
9/22/2012	22:00 - 23:30	1.50	MIRU	01	В	Р		INSTALL DIVERTER HEAD; RIG UP NOV EQUIPMENT; SPOT IN RIG; CATWALK & PIPE RACKS; RIG UP & PRIME PUMP INSPECT RIG.
	23:30 - 0:00	0.50	DRLSUR	80	Α	Z		***HYDRAULIC HOSE FAILURE
9/23/2012	0:00 - 0:30	0.50	DRLSUR	80	Α	Z		***HYDRAULIC HOSE
	0:30 - 1:00	0.50	DRLSUR	06	Α	Р		PICK UP 12.25" BIT & 8" MUD MOTOR & TIH
	1:00 - 2:00	1.00	DRLSUR	02	В	Р		DRL F/44' - T/210' (166' @ 166' ROP) W.O.B 18/20K RPM 45 POWERHEAD / 83 MUD MOTOR UP/DWN/ROT 22/20/20 ~2K DRAG PSI ON/OFF 650/450 M.W. 8.4# VIS 27 491 GPM PUMP RATE / NO AIR NOV-ONLINE HOLE CONDITION GOOD
	2:00 - 2:30	0.50	DRLSUR	06	Α	Р		TOOH WITH #1 BHA
	2:30 - 3:00	0.50	DRLSUR	06	Α	Р		TIH WITH #2 BHA W/11" BIT
	3:00 - 12:00	9.00	DRLSUR	02	В	Р		DRL F/210' - T/1540' (1330' @ 147.7' ROP) W.O.B. = 18/20K RPM 45 POWERHEAD / 83 MUD MOTOR UP/DWN/ROT 68/50/58 ~ 10K DRAG PSI ON/OFF 1300/900 M.W. 8.4# VIS 27 491 GPM PUMP RATE / NO AIR NOV-ONLINE HOLE CONDITION GOOD 8' HIGH .5' RIGHT OF LINE SLID 156' / 11%
	12:00 - 19:00	7.00	DRLSUR	02	В	P		DRL F/1540' - T/2337' (797' @ 113.8' ROP) W.O.B. = 18/20K RPM 45 POWERHEAD / 83 MUD MOTOR UP/DWN/ROT 81/60/71 PSI ON/OFF 1550/1350 M.W. 8.4# VIS 27 491 GPM PUMP RATE / 2420 CFM AIR RATE NOV-ONLINE HOLE CONDITION LOST RETURNS @ 1510' 7' HIGH .5' RIGHT OF LINE SLID 279' / 12%
	19:00 - 21:00	2.00	DRLSUR	05	С	Р		CIRCULATE PRIOR TO TRIP
	21:00 - 0:00	3.00	DRLSUR	06	Α	Р		LDDS, BHA & DIRECTIONAL TOOLS
9/24/2012	0:00 - 0:30	0.50	CSGSUR	12	Α	Р		MOVE PIPE RACKS AND CATWALK; PULL DIVERTER HEAD; RIG UP TO RUN CASING;MOVE CASING INTO POSITION
	0:30 - 2:30	2.00	CSGSUR	12	С	Р		TIH 52 JOINTS 8 5/8", 28#, J55 CASING SHOE IS AT 2298.8' BAFFLE IS AT 2254'
	2:30 - 3:00	0.50	CSGSUR	12	В	Р		HOLD SAFETY MEETING; RUN 200' OF 1" TUBING; RIG DOWN MOVE OFF WELL; RIG UP CEMENTERS AND CEMENT HEAD.

API Well Number: 43047523840000 US ROCKIES REGION **Operation Summary Report** Well: NBU 1022-1J1CS BLUE Spud Date: 9/23/2012 Project: UTAH-UINTAH Site: NBU 1022-01J PAD Rig Name No: PROPETRO 11/11, XTC 12/12 **Event: DRILLING** End Date: 3/21/2013 Start Date: 9/9/2012 UWI: NW/SE/0/10/S/22/E/1/0/0/26/PM/S/1877/E/0/2227/0/0 Active Datum: RKB @5,092.00usft (above Mean Sea P/U Date Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 3:00 - 5:30 2.50 **CSGSUR** 12 Ρ Ε RIG UP PRO PETRO PUMP TRUCK: TEST LINES TO 1500 PSI; PUMP 135 BBL'S WATER AHEAD FOLLOWED BY 20 BBL GEL WATER SPACER: PUMP 300SKS CLASS G CMT + 2% CACL2 + 1/4#/ SX FLOCELE @ 15.8 WT & 1.15 YIELD; DROP PLUG & DISPLACE W/ 140.8 BBLS WATER; PLUG DN @ 08:22 09/24/2012; BUMP PLUG W/ 550 PSI; FINAL LIFT = 250 PSI; FLOAT DIDN'T HOLD - HELD PRESSURE ON CSG; NO CIRCULATION & NO CMT TO SURFACE; PUMP 150SX CLASS G CMT @ 15.8 WT & 1.15 YIELD + 4% CACL2 + 1/4# FLOCELE DN 1"; NO CMT TO SURFACE; PUMP 2 MORE TOP OUTS FOR A TOTAL OF 300SX CLASS G CMT @ 15.8 WT & 1.15 YIELD + 4% CACL2 + 1/4# FLOCELE; CMT TO SURFACE; RELEASE RIG @ 05:30 09/24/2012; SKID TO THE NBU 1022-1J4CS 3/3/2013 14:00 - 14:30 0.50 MIRU С Ρ SKID THE RIG 10' AND CENTER IT UP 14:30 - 15:30 Ρ 1.00 MIRU 01 В RIG UP THE FLOW LINE, FLOOR AND SKATE NIPPLE UP THE BOP 15:30 - 16:00 0.50 **PRPSPD** 14 Α 16:00 - 20:00 4.00 **PRPSPD** 15 Α Р HOLD SAFETY MEETING. TEST TOP DRIVE VALVE, I-BOP VALVE, FLOOR VALVE, DART VALVE, PIPE AND BLIND RAMS, INSIDE AND OUTSIDE KILL LINE VALVES INSIDE OUTSIDE CHOKE LINE VALVE, HCR VALVE, CHOKE LINE, CHOKE MANIFOLD VALVES AND CHOKES TO 5000 PSI FOR 10 MINUTES AND 250 PSI FOR 5 MINUTES. TEST ANNULAR TO 2500 PSI FOR 10 MIN AND 250 PSI FOR 5 MINUTES. TESTING CASING TO 1500 PSI FOR 30 MINUTES. 20:00 - 20:30 0.50 PRPSPD **INSTALL WEAR BUSHING** 20:30 - 0:00 Ρ 3.50 **PRPSPD** 06 Α SCRIBE DIRECTIONAL TOOLS, PICK UP BHA AND TRIP IN THE HOLE 3/4/2013 0:00 - 0:30 0.50 **PRPSPD** Ρ TRIP IN THE HOLE AND TAG CEMENT @ 2185' 0:30 - 1:30 1.00 **DRLPRC** 02 F Р DRILLED CEMENT AND FLOAT EQIPMENT 90 STKS 40 RPM 10-12K WOB

				U	S RUC	KIES RE	EGION					
				Opera	tion S	umma	ry Report					
/ell: NBU 1022-	-1J1CS BLUE			Spud Date: 9/23/2012								
roject: UTAH-U	INTAH		Site: NBU	1022-01	J PAD			Rig Name No: PROPETRO 11/11, XTC 12/12				
Event: DRILLING Start Da				e: 9/9/201	2			End Date: 3/21/2013				
Active Datum: RKB @5,092.00usft (above Mean Sea .evel)			ea	UWI: N	N/SE/0/1	0/S/22/E/1	/0/0/26/PM/S/18	377/E/0/2227/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation				
	1:30 - 5:30	4.00	DRLPRC	02	В	P		DRILL SLIDE F/ 2348' - 3097' (749' @ 187.25' / HR) WEIGHT ON BIT 15-24 K. AVERAGE WEIGHT ON BIT 20 K. ROTARY RPM 55, MUD MOTOR RPM 123. STROKES PER MINUTE 130 GALLONS PER MINUTE 586. OFF/ON PSI 1500/1800. DIFFERENTIAL 300. TORQUE HIGH/LOW 6500 / 4500 OFF BOTTOM TORQUE 2500 STRING WEIGHT UP/DOWN/ROT 85/68/75. DRAG 10 K. NOV RUNNING 1 CENTRIFUGES ON DEWATER. WT 8.8 VIS 33. ////// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 45 BBL. FLUID FOR HOLE VOLUME 35 BARRELS LOSSES @ 9 BBL/HR NO FLARE MD- 3097' 8.2' N & 45' W OF PLAN LINE. FootageFeet% Total749 Slide202.67% Rotate72997.33% TimeMinHrs% Total 240 Slide104.17%				
	5:30 - 6:00	0.50	DRLPRC	07	Α	Р		Rotate5.52.29% RIG SERVICE				

				_									
				Opera	ition S	umma	ry Report						
ell: NBU 102	2-1J1CS BLUE			Spud Date: 9/23/2012									
roject: UTAH-	UINTAH		Site: NBU	1022-01	J PAD			Rig Name No: PROPETRO 11/11, XTC 12/12					
vent: DRILLIN	IG		Start Date	e: 9/9/201	12		End Date: 3/21/2013						
ctive Datum: I	RKB @5,092.00usft (ab	ove Mean S	ea	UWI: N	W/SE/0/1	0/S/22/E/1	/0/0/26/PM/S/18	877/E/0/2227/0/0					
evel)													
Date	Time Start-End	Duration (hr)	Phase	Code	Sub	P/U	MD From (usft)	Operation					
	Start-End 6:00 - 17:30	(hr) 11.50	DRLPRC	02	B B	P	(usft)	DRILL SLIDE F/ 3097' - 4814' (1717' @ 149.3' / HR) WEIGHT ON BIT 15-24 K. AVERAGE WEIGHT ON BIT 20 K. ROTARY RPM 55, MUD MOTOR RPM 123. STROKES PER MINUTE 130 GALLONS PER MINUTE 586. OFF/ON PSI 1700/2100. DIFFERENTIAL 400. TORQUE HIGH/LOW 9000 / 5000 OFF BOTTOM TORQUE 3500 STRING WEIGHT UP/DOWN/ROT 120/80/95. DRAG 25 K. NOV RUNNING 1 CENTRIFUGES ON DEWATER. WT 8.8 VIS 33. ////// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 100 BBL. FLUID FOR HOLE VOLUME 90 BARRELS LOSSES @ 9 BBL/HR NO FLARE MD- 4814' 16.3' N & 39.5' W OF CENTER. I NOTIFIED KENNY AND BRIAN THAT DIRECTIONAL WAS GOING TO MISS THE TOP OF THE CYLINDER. BRIAN GAVE THE OK TO HOLD ANGLE @ 2.3 TO COME INTO THE CYLINDER BY 5200'. FootageFeet% Total 7717 Slide 1559.03% Rotate 156290.97% TimeMinHrs% Total 720 Slide 15020.83%					

				U	S ROC	KIES RE	GION	
				Opera	tion S	umma	ry Report	
/ell: NBU 1022	-1J1CS BLUE						Spud Date: 9/2	23/2012
roject: UTAH-L	JINTAH		Site: NBL	1022-01	J PAD			Rig Name No: PROPETRO 11/11, XTC 12/12
vent: DRILLIN	G		Start Date	e: 9/9/201	2			End Date: 3/21/2013
ctive Datum: R	KB @5,092.00usft (al	ea	UWI: N\	N/SE/0/1	0/S/22/E/1	/0/0/26/PM/S/18	377/E/0/2227/0/0	
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	18:00 - 0:00	6.00	DRLPRV	02	В	P		DRILL SLIDE F/ 4814' - 5478' (664' @ 110.6' / HR) WEIGHT ON BIT 15-24 K. AVERAGE WEIGHT ON BIT 20 K. ROTARY RPM 55, MUD MOTOR RPM 123. STROKES PER MINUTE 130 GALLONS PER MINUTE 586. OFF/ON PSI 1800/2100. DIFFERENTIAL 300. TORQUE HIGH/LOW 9000 / 5000 OFF BOTTOM TORQUE 3500 STRING WEIGHT UP/DOWN/ROT 120/90/105. DRAG 15 K. NOV RUNNING 1 CENTRIFUGES ON DEWATER. WT 8.8 VIS 33. ///// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 40 BBL. FLUID FOR HOLE VOLUME 60 BARRELS LOSSES @ 10 BBL/HR NO FLARE MD- 5478' 7.3' N & 11.8' W OF CENTER. (INTERCEPT CYLINDER @ MD 5150') FootageFeet% Total664 Slide7010.54% Rotate59489.46% TimeMinHrs% Total 360 Slide8022.22%

RECEIVED: Aug. 24, 2013

						KIES RE	ry Report			
				Opera	ilion s	umma				
Well: NBU 1022-			1				Spud Date: 9/2			
Project: UTAH-U	INTAH		Site: NBL	J 1022-01	J PAD			Rig Name No: PROPETRO 11/11, XTC 12/12		
Event: DRILLING	3	Start Date	e: 9/9/201	12			End Date: 3/21/2013			
Active Datum: R Level)	KB @5,092.00usft (a	a	UWI: N\	W/SE/0/1	0/S/22/E/1	/0/0/26/PM/S/18	377/E/0/2227/0/0			
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation		
3/5/2013	0:00 - 3:00	3.00	DRLPRV	02	В	P		DRILL SLIDE / 5478' - 5876'(398' @ 132.6' / HR) WEIGHT ON BIT 15-24 K. AVERAGE WEIGHT ON BIT 20 K. ROTARY RPM 55, MUD MOTOR RPM 123. STROKES PER MINUTE 130 GALLONS PER MINUTE 586. OFF/ON PSI 1900/2200. DIFFERENTIAL 300. TORQUE HIGH/LOW 9000 / 5000 OFF BOTTOM TORQUE 3500 STRING WEIGHT UP/DOWN/ROT 125/95/110. DRAG 15 K. NOV RUNNING 1 CENTRIFUGES ON DEWATER. WT 8.8 VIS 33. ////// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 25 BBL. FLUID FOR HOLE VOLUME 30 BARRELS LOSSES @ 10 BBL/HR NO FLARE		
	3:00 - 4:30	1.50	DRLPRV	22	L	Z		***DELAY: (PASON) PASON COMMUNICATION SYSTEM WENT DOWN AND THE RIG MANAGERS HARD DRIVE HAD TO BE RESTARTED A COUPLE OF TIMES TO GET THE SYTEM TO REBOOT.		

				Opera	tion S	Summa	ry Report					
Vell: NBU 1022-	1J1CS BLUE			Spud Date: 9/23/2012								
Project: UTAH-U	INTAH		Site: NBL	J 1022-01	J PAD			Rig Name No: PROPETRO 11/11, XTC 12/12				
vent: DRILLING	3		Start Date	e: 9/9/201	12			End Date: 3/21/2013				
ctive Datum: Ri	KB @5,092.00usft (ab	ove Mean S	ea	UWI: N\	UWI: NW/SE/0/10/S/22/E/1/0/0/26/PM/S/1877/E/0/2227/0/0							
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation				
	6:00 - 17:30	11.50	DRLPRV	02	В	P		DRILL SLIDE / 6010' - 7204' (1194' @ 103.8' / HR) WEIGHT ON BIT 15-24 K. AVERAGE WEIGHT ON BIT 20 K. ROTARY RPM 55, MUD MOTOR RPM 123. STROKES PER MINUTE 130 GALLONS PER MINUTE 586. OFF/ON PSI 2200/2600. DIFFERENTIAL 400. TORQUE HIGH/LOW 10000 / 5000 OFF BOTTOM TORQUE 4000 STRING WEIGHT UP/DOWN/ROT 145/105/115. DRAG 30 K. NOV RUNNING 1 CENTRIFUGES ON DEWATER. WT 9.0 VIS 33. ////// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 70 BBL. FLUID FOR HOLE VOLUME 60 BARRELS LOSSES @ 5 BBL/HR NO FLARE MD- 7204' 8' N & 3.7' W OF TARGET CENTER. FootageFeet% Total 1239 Slide332.66% Rotate 120697.34% TimeMinHrs% Total 720 Slide506.94% Rotate 67093.06%				
	17:30 - 18:00	0.50	DRLPRV	07	Α	Р		RIG SERVICE				

			.				
			Opera	tion S	umma	ry Report	
ell: NBU 1022-1J1CS BLUE		Spud Date: 9/2	/23/2012				
oject: UTAH-UINTAH		Site: NBU	1022-01	J PAD			Rig Name No: PROPETRO 11/11, XTC 12/12
vent: DRILLING Start Da			e: 9/9/201	2			End Date: 3/21/2013
tive Datum: RKB @5,092.00usft (al	oove Mean Sea		UWI: NV	N/SE/0/10)/S/22/E/1	/0/0/26/PM/S/18	377/E/0/2227/0/0
Date Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
18:00 - 0:00	6.00	DRLPRV	02	В	P		DRILL SLIDE / 7204' - 7732' (528 ' @ 88' / HR) WEIGHT ON BIT 15-24 K. AVERAGE WEIGHT ON BIT 20 K. ROTARY RPM 55, MUD MOTOR RPM 123. STROKES PER MINUTE 130 GALLONS PER MINUTE 586. OFF/ON PSI 2400/2800. DIFFERENTIAL 400. TORQUE HIGH/LOW 10000 / 7000 OFF BOTTOM TORQUE 5000 STRING WEIGHT UP/DOWN/ROT 150/120/130. DRAG 20 K. NOV RUNNING 1 CENTRIFUGES ON DEWATER. WT 9.1 VIS 33. ///// DRILLING WITH FLOWZAN MUD CHEM //// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 30 BBL. FLUID FOR HOLE VOLUME 50 BARRELS LOSSES @ 8 BBL/HR NO FLARE MD- 7732' 7' N & 7.4' W OF CENTER. FootageFeet% Total528 Slide7013.26%

				Opera	tion S	umma	ry Report				
Vell: NBU 1022	-1J1CS BLUE						Spud Date: 9/2	23/2012			
roject: UTAH-U	JINTAH		Site: NBL	1022-01	J PAD			Rig Name No: PROPETRO 11/11, XTC 12/12			
vent: DRILLING	G		Start Date	e: 9/9/201	12			End Date: 3/21/2013			
ctive Datum: R evel)	KB @5,092.00usft (a	bove Mean S	ea	UWI: N	W/SE/0/1	0/S/22/E/	S/22/E/1/0/0/26/PM/S/1877/E/0/2227/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation			
3/6/2013	0:00 - 4:00	4.00	DRLPRV	02	B	P	(USII)	DRILL SLIDE / 7732' - 8035' (303 ' @ 75.7' / HR) WEIGHT ON BIT 15-24 K. AVERAGE WEIGHT ON BIT 20 K. ROTARY RPM 55, MUD MOTOR RPM 123. STROKES PER MINUTE 130 GALLONS PER MINUTE 586. OFF/ON PSI 2400/2800. DIFFERENTIAL 400. TORQUE HIGH/LOW 10000 / 7000 OFF BOTTOM TORQUE 5000 STRING WEIGHT UP/DOWN/ROT 155/125/135. DRAG 20 K. NOV RUNNING 1 CENTRIFUGES ON DEWATER. WT 9.5 VIS 34. ////// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 20 BBL. FLUID FOR HOLE VOLUME 30 BARRELS LOSSES @ 8 BBL/HR NO FLARE WE TOOK A 20 BBL GAIN JUST BEFORE THE RIG BLACKED OUT 7945' 2' N 5' W OF TARGET CENTER FOOTAGE Feet% TOTAI 308 SII GEOLO 00% ROTAL STAN STAN SEED SEED SEED SEED SEED SEED SEED SEE			
	4:00 - 4:30	0.50	DRLPRV	07	Α	Р		Rotate2704.5100.00% RIG SERVICE GETTING GENS BACK ON LINE AFTER THE RIG BLACKED OUT. THE WELL WAS FLOWING WHILE TRYING TO GE THTE GENS ON LINE. WE SHUT THE ANNULAR UNTIL WE WERE ABLE TO GET 2 OF THE GENS BACK UP AND RUNNING. 172# SIDPP 50# CASING PRESSURE			

API Well Number: 43047523840000 US ROCKIES REGION								
Operation Summary Report								
Well: NBU 1022	2-1.J1CS BLUE			•			Spud Date: 9/2	23/2012
Well: NBU 1022-1J1CS BLUE Project: UTAH-UINTAH Site: NBI				J 1022-01J PAD				Rig Name No: PROPETRO 11/11, XTC 12/12
			Start Date	te: 9/9/2012				End Date: 3/21/2013
Active Datum: RKB @5,092.00usft (above Mean Sea				UWI: NW/SE/0/10/S/22/E/1/0/0/26/PM/S/187			1/0/0/26/PM/S/18	377/E/0/2227/0/0
Level)								
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	4:30 - 20:00	15.50	DRLPRV	02	В	P		DRILL SLIDE / 8035' - 8575' (540 ' @ 34.8' / HR) WEIGHT ON BIT 15-24 K. AVERAGE WEIGHT ON BIT 20 K. ROTARY RPM 55, MUD MOTOR RPM 85 / 99. STROKES PER MINUTE 90 / 105 GALLONS PER MINUTE 405 / 473. OFF/ON PSI 2200/2500 / 2700/3000. DIFFERENTIAL 300. TORQUE HIGH/LOW 10000 / 7000 OFF BOTTOM TORQUE 5000 STRING WEIGHT UP/DOWN/ROT 155/125/135. DRAG 20 K. NOV RUNNING 1 CENTRIFUGES ON DEWATER. WT 11.5 VIS 38. BY TD RAISED MUD TO 12.1 MW AND 41 VIS PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 30 BBL. FLUID FOR HOLE VOLUME 40 BARRELS LOSSES @ 5 BBL/HR NO FLARE WE STARTED DISPLACING FLOWZAN FOR HEAVY MUD @ 8035' I TALKED WITH KENNY AND OUR MUD UP POINT WAS TO BE AROUND 8200' - 8250' SO INSTEAD OF CUTTING THE MUD WEIGHT BACK AND HAVING TO BUILD THE MUD WEIGHT BACK UP IN 200' WE OPTED TO STAGE THE MUD IN AT 11.5 MW ****** WE ARE DRILLING WITH ONE MAIN AND ONE BACKUP GEN (GEN ONE BROKE A BOLT ON AN OIL LINE) SO WE ARE LIMITED ON PUMP OUTPUT AND BIT WEIGHT AS THE TURBO ON GEN 3 WAS GETTING VERY HOT WHEN WE TRIED TO DRILL AGGRESSIVELY AND WE WERE PUSHING OUR LOAD LIMIT. 8525' 16' S 3' E OF TARGET CENTER FOOTAGEFeet% TOTALS35 SIGEOO.00% Rotate535100.00%
	20:00 - 22:00	2.00	DRLPRV	05	С	Р		CIRCULATE PRIOR TO MAKING A WIPER TRIP: PUMP: 105 STROKES, 490 GPM 12.1 MW 40 VIS
	22:00 - 0:00	2.00	DRLPRV	06	E	Р		PUMPED 2 JOINTS OFF BOTTOM AND PULLED 37 JOINTS TOTAL. HOLE IS IN GOOD SHAPE.
3/7/2013	0:00 - 1:30	1.50	DRLPRV	06	Е	Р		WIPER TRIP: TRIP BACK IN THE HOLE, 5' FILL
	1:30 - 3:30	2.00	DRLPRV	05	С	Р		CIRCULATE AND CONDITION THE HOLE FOR THE LOGGING TRIP
	3:30 - 11:00	7.50	DRLPRV	06	В	Р		TRIP OUT TO PICK UP THE LOGGING ASSEMBLY LAYED DOWN PIPE AND BHA SLIGHT OVERPULL @ 4620', 2900' - 2650'

API Well Number: 43047523840000 **US ROCKIES REGION Operation Summary Report** Well: NBU 1022-1J1CS BLUE Spud Date: 9/23/2012 Project: UTAH-UINTAH Site: NBU 1022-01J PAD Rig Name No: PROPETRO 11/11, XTC 12/12 **Event: DRILLING** End Date: 3/21/2013 Start Date: 9/9/2012 UWI: NW/SE/0/10/S/22/E/1/0/0/26/PM/S/1877/E/0/2227/0/0 Active Datum: RKB @5,092.00usft (above Mean Sea P/U Date Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 11:00 - 15:00 4.00 **DRLPRV** 06 Ρ В MADE UP THE LOGGING TOOL ASSEMBLY THE TRIPPED IN THE HOLE STRAPPED AND RABBITTED THE DRILL PIPE AS WE PICKED IT UP. 15:00 - 18:00 3.00 DRLPRV 03 Ε Х **** WASHING AND REAMING FROM CASING SHOE TO 3808' THE LOGGING TOOL ASSEMBLY FROM UNDER THE SHOE THE LOGGING ASSEMBLY IS GETTING CAUGHT ON ALMOST EVERY LEDGE WHERE WE HAD A SLIDE.I TALKED TO NATHAN HARDER AND SUGGESTED NEXT TIME MAYRE HAVING A SLIGHTLY UNDERGUAGE BIT TO RUN ON THE BOTTOM OF THE ASSEMBLY TO HELP GET IT IN THE HOLE EASIER. I CALLED KENNY TO LET HIM KNOW WE WERE HAVING PROBLEMS WASHING DOWN TO BOTTOM 18:00 - 18:30 0.50 DRLPRV Р 07 RIG SERVICE Α 18:30 - 19:30 1.00 **DRLPRV** 80 Ζ Α ***FAILURE: RIG EQUIPMENT - (PUMPS) HAD A WASHED POP OFF ON #1 PUMP AND A SWAB OUT ON #2 PUMP 19:30 - 0:00 DRLPRV 4.50 03 Ε Х **** WASHING AND REAMING THE LOGGING TOOL ASSEMBLY FROM UNDER THE SHOE. THE LOGGING ASSEMBLY IS GETTING CAUGHT ON ALMOST EVERY LEDGE WHERE WE HAD A SLIDE.WE COULD RUN JOINTS IN WITHOUT REAMING IN THE ROTATING SECTION OF THE HOLE. MIDNIGHT DEPTH 5310' 3/8/2013 0:00 - 8:00 8 00 DRI PRV 03 Ε Х **** WASHING AND REAMING THE LOGGING TOOL ASSEMBLY FROM UNDER THE SHOE. THE LOGGING BHA ASSEMBLY IS GETTING CAUGHT ON ALMOST EVERY LEDGE WHERE WE HAD A SLIDE.WE COULD RUN JOINTS IN WITHOUT REAMING IN 70% OF THE ROTATING SECTION OF THE HOLE. WE HAD TO WASH THE LAST 30' TO BOTTOM THE LAST HOUR THE OPEN SIDE PORTS IN THE BHA DID NOT HELP AS WE WERE TRYING TO WASH A BRIDGE AND FILL ON BOTTOM 8:00 - 10:30 2 50 DRI PRV C Р 05 WE CIRCULATED UNTIL THE SHAKERS WERE GOOD AND CLEAN TO TRY TO MAKE THE TRIP OUT WITH THE LOGGING TOOL AS EASY AS POSSIBLE SINCE OUR ROTATING TIME HAD TO BE KEPT TO A MINIMUM RPM AND TIMELINE (15RPM / 1 HR OR 30 RPM / 30 MIN) 12' FLARE FOR 30 MINUTES ON BOTTOM UP WE HAD MEDIUM HEAVY CUTTING OVER THE SHAKER FOR AWHILE HELD A SAFETY MEETING WITH HALLIBURTON ON RIGGING UP THE LOGGING TOOLS

API Well Number: 43047523840000 **US ROCKIES REGION Operation Summary Report** Well: NBU 1022-1J1CS BLUE Spud Date: 9/23/2012 Project: UTAH-UINTAH Site: NBU 1022-01J PAD Rig Name No: PROPETRO 11/11, XTC 12/12 **Event: DRILLING** End Date: 3/21/2013 Start Date: 9/9/2012 UWI: NW/SE/0/10/S/22/E/1/0/0/26/PM/S/1877/E/0/2227/0/0 Active Datum: RKB @5,092.00usft (above Mean Sea P/U Date Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 10:30 - 16:00 5.50 **DRLPRV** 11 Ρ D WE PULLED 3 JOINTS. RIGGED UP THE LOGGING TOOLS, AND PACK OFF THE RAN IN THE PIPE WITH THE TOOLS TO SET THEM IN THE SEAT. THE TOOL NOSE WAS HANGING UP IN THE LOGGING BHA AND WOULD NOT ALLOW THE TOOLS TO BE SEATED. WE TRIED PUTTING A LITTLE PRESSURE THE LOGGING TOOL WITH THE PUMP AND STILL FAILED TO GET THE TOOL NOSE OUT OF THE BHA ASSEMBLY TO SEAT IT. THE LOWER TOOL HAS COMPOSITE PARTS AND THEY CAN NOT GET ROUGH WITH IT TO SEAT THE I CALLED BRIAN COCCHIERE AND KENNY GATHINGS TO LET THEM KNOW. BRIAN SAID TO RETRIEVE THE TOOLS, CIRCULATE THE WELL CLEAN AND COME OUT TO ATTEMPT WIRELINE LOGS. 16:00 - 18:00 2 00 **DRLPRV** 05 С Р BROKE CIRCULATION, WASHED THE 3 JOINTS BACK TO BOTTOM THEN CIRCULATED AND CONDITION TO COME OUT FOR LOGS 18:00 - 0:00 6.00 DRLPRV 06 В S **** TRIPPED OUT OF THE HOLE TO LAY DOWN THE LOGGING ASSEMBLY AND ATTEMPT WIRELINE PUMPED AND ROTATED 8575' - 7798', 4086' - 3800', 3266' 3/9/2013 0:00 - 1:00 1 00 DRI PRV Р 06 В ****TRIPPED OUT OF THE HOLE TO LAY DOWN THE LOGGING ASSEMBLY. PIPE GOT STUCK @ 3156' WHILE TRIPPING OUT - 8:00 1:00 7.00 **DRLPRV** 22 Α Χ ***STUCK PIPE THE DRILLER PULLED INTO A TIGHT SPOT @ 3156' STRING WEIGHT 67K **PULLED 95K** WE WORKED THE PIPE DOWN WITHOUT ANY LUCK CALLED KENNY TO DISCUSS PULLING UP AND WAS ADVISED TO WORK THE PIPE DOWN UNTIL WE GOT A FREEPOINT TRUCK ON LOCATION IT TOOK AWHILE TO LOCATE A FREEPOINT TRUCK AS THEY WERE BUSY OR HAD PERSONEL OUT OF TOWN. 8:00 - 11:00 3.00 **DRLPRV** 19 ***STUCK PIPE HELD A SAFETY MEETING WITH SINGLE SHOT WIRELINE HUNG SHEAVES IN THE DERRICK AND PULLED THE CAP ON THE TOP DRIVE. RAN IN WITH WIRELINE AND FREEPOINTED. THE CORE BIT WAS NOT PLUGGED AND WE RUN THE FREEPOINT TOOLS TRHOUGH IT. BOTTOM OF BIT @ 3156' TOP OF BHA @ 3142'. 2820' 15% FREE 2750' 90% FREE 2730 100% FREE

API Well Number: 43047523840000 US ROCKIES REGION **Operation Summary Report** Well: NBU 1022-1J1CS BLUE Spud Date: 9/23/2012 Project: UTAH-UINTAH Site: NBU 1022-01J PAD Rig Name No: PROPETRO 11/11, XTC 12/12 **Event: DRILLING** End Date: 3/21/2013 Start Date: 9/9/2012 UWI: NW/SE/0/10/S/22/E/1/0/0/26/PM/S/1877/E/0/2227/0/0 Active Datum: RKB @5,092.00usft (above Mean Sea P/U Date Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 11:00 - 13:30 2.50 **DRLPRV** 19 Χ Α ***STUCK PIPE HELD A SAFETY MEETING, RIGGED A CHARGE UP TO SHOOT OFF. 1ST CHARGE WAS NOT EFFECTIVE WITH 2 ROUNDS OF LEFT TORQUE. PULLED OUT RIIGED CHARGE #2 AND USED 3 ROUNDS OF LEFT TORQUE. SHOT OFF @ 2747' LEFT 9 JOINTS OF DRILL PIPE AND THE LOGGING SUBS IN THE HOLE. 13:30 - 15:30 2 00 **DRLPRV** Х ***STUCK PIPE TRIPPED OUT AND LAYED DOWN THE DRILL PIPE 15:30 - 16:00 0.50 DRLPRV 14 В Х PULLED THE DRILLING RUBBER. 16:00 - 20:00 4.00 DRLPRV 06 Х ***STUCK PIPE SAFETY MEETING WITH SLAUGH FISHING PICKED UP JAR, CIRCULATING SUB, CROSSOVER AND SCREW IN SUB STRAPPED RACKED OUT HWDP AND PIPE TO RUN IN WITH TRIPPED IN THE HOLE WITH 30 HEAVY WEIGHT PIPE AND DRILL PIPE TO THE FISH 15 MINUTE DELAY TO CHECK BRAKES 15 MINUTE DELAY TO CHECK CONSOLE 30 MINUTES TO INSTALL RUBBER AND SAVER SUB 20:00 - 20:30 RIG SERVICE 0.50 DRLPRV Ρ 07 Α 20:30 - 22:00 1.50 **DRLPRV** 80 Ζ ***FAILURE: RIG EQUIPMENT - (HPU) WORK ON HPU: HAD A BAD HOSE 22:00 - 23:00 DRLPRV 1.00 19 Α Χ ***STUCK PIPE TRIP IN AND TAG FISH @ 2747' 23:00 - 0:00 1 00 DRI PRV 19 Х Α ***STUCK PIPE ATTEMPTING TO SCREW INTO THE FISH: ACTS LIKE WE ARE GETTING BESIDE THE TOOL **JOINT** WE SET DOWN AND TAKE WEIGHT, USE ROTARY AND TORQUE TO 12000 THEN IT WOULD JUMP AND RELEASE THE TORQUE. 0:00 - 3:00 3/10/2013 2.00 **DRLPRV** 19 ***STUCK PIPE ATTEMPTING TO SCREW INTO THE FISH WITH SCREWIN SUB. BHA: DRILLING JAR, CIRCULATING SUB, X/O, XT-39 **SCREWIN SUB** WE ATTEMPTED TO GET SCREWED INTO THE FISH AND SEEM TO BE GETTING DOWN BESIDE IT. I LET KENNY GATHINGS KNOW WHAT I THOUGHT WAS GOING ON AND HE ADVISED US TO TRIP OUT AND INSPECT THE TOOLS **1HOUR TIME CHANGE**

API Well Number: 43047523840000 US ROCKIES REGION **Operation Summary Report** Well: NBU 1022-1J1CS BLUE Spud Date: 9/23/2012 Project: UTAH-UINTAH Site: NBU 1022-01J PAD Rig Name No: PROPETRO 11/11, XTC 12/12 **Event: DRILLING** End Date: 3/21/2013 Start Date: 9/9/2012 UWI: NW/SE/0/10/S/22/E/1/0/0/26/PM/S/1877/E/0/2227/0/0 Active Datum: RKB @5,092.00usft (above Mean Sea P/U Date Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 3:00 - 6:00 3.00 **DRLPRV** 06 Χ Α ***STUCK PIPE .TRIPPED OUT OF THE HOLE AND INSECTED FISHING TOOLS FOR WEAR SIGNS. WE DID SEE SIGNS THAT WE HAD BEEN DOWN BESIDE THE TOOL JOINT ON THE FISH. THE CUT LIP AND LOWER THREADS ON THE SCREW IN SUB WERE WORN AND ROLLED IN. HAD WEAR UP 1 SIDE OF THE THREADS 6:00 - 8:30 2 50 **DRLPRV** 06 Χ ***STUCK PIPE STRAPPED CALIPERED AND PICKED UP A NEW FISHING ASSEMBLY #2 **DRILLING JARS BUMPER SUB** CIRCULATING SUB TOP BUSHING 7 3/8 OD SKIRTED SCREW IN SUB 8:30 - 9:00 0.50 DRLPRV 07 RIG SERVICE 9:00 - 11:30 2.50 **DRLPRV** Χ ***STUCK PIPE TRIP IN THE HOLE WITH THE FISHING ASSEMBLY #2 11:30 - 16:00 4.50 **DRLPRV** 19 Α Х ***STUCK PIPE WE TAGGED THE TOP OF THE FISH WITH THE SKIRT AND WERE TRYING TO WORK DOWN OVER IT TO THE SCREW IN SUB (4.2' FROM THE BOTTOM OF THE SKIRT TO THE SUB). WE COULD FEEL THE TOP OF THE FISH AND WORK IT DOWN BUT WE WOULD STACK OUT WEIGHT OR STALL THE ROTARY BEFORE BEING ABLE TO SCREW INTO THE FISH. KENNY GATHINGS WAS THERE TO WITNESS THE FISHING ATTEMPT. 16:00 - 20:30 4 50 DRLPRV 06 Х ***STUCK PIPE TRIP OUT HOLE BREAK DOWN FISHING TOOLS LOOK THEM OVER FOR FRESH MARK ON SKIRT & LIP GUIDE. LAY DOWN SCREW IN SUB, SKIRT, BUMPER SUB, CLEAN UP RIG FLOOR TALKED TO KENNY GATHING ABOUT A BHA FOR THE NEXT ATTEMPT ON FISH 20:30 - 22:00 1.50 **DRLPRV** 09 Α Х ***STUCK PIPE CUT DRILLING LINE14 WRAPS = 91' 22:00 - 0:00 2.00 **DRLPRV** 06 Χ ***STUCK PIPE PICK UP BHA#3 OVER SHOT 7 5/8 OD DRESSED WITH 4.75" GRAPLE, CIRCULATING SUB, NATIONAL DRILLING JARS, 30 JTS HWD, 41 JOINTS DRILL PIPE, TRIP IN HOLE WITH FISHING BHA#3 0:00 - 2:30 3/11/2013 2.50 DRLPRV 06 Х ***STUCK PIPE TRIP IN THE HOLE WITH BHA # 3 OVER SHOT 7 5/8 OD DRESSED WITH 4.75" GRAPLE, CIRCULATING SUB, NATIONAL DRILLING JARS, 30 JTS HWD, 41 JOINTS DRILL PIPE,

API Well Number: 43047523840000 **US ROCKIES REGION Operation Summary Report** Spud Date: 9/23/2012 Well: NBU 1022-1J1CS BLUE Project: UTAH-UINTAH Site: NBU 1022-01J PAD Rig Name No: PROPETRO 11/11, XTC 12/12 **Event: DRILLING** End Date: 3/21/2013 Start Date: 9/9/2012 UWI: NW/SE/0/10/S/22/E/1/0/0/26/PM/S/1877/E/0/2227/0/0 Active Datum: RKB @5,092.00usft (above Mean Sea P/U Date Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 2:30 - 10:30 8.00 **DRLPRV** 19 Χ Α . ***STUCK PIPE TAGGED FISH @ 2746' WORKED THE OVERSHOT DOWN AND GOT ON THE FISH CIRCULATED WITH 10 STK / 210 PSI BROUGHT UP THE PUMP STROKES IN 5 STROKE INCREMENTS TO 65 STK /660 PSI. WENT OVER THE FISH WITH 10 STKS PRESSURE CAME UP TO 291 PSI. LATCHED ONTO FISH AND BEGAN JARRING DOWN. DISPLACED THE UPPER HOLE WITH 10# MUD AND KEPT JARRING DOWN. KNOCKED THE FISH DOWN AND PICKED UP 10:30 - 14:30 4.00 **DRLPRV** Х ***STUCK PIPE STARTED PULLING THE FISH UPHOLE PULLED THE FISH UP TO 2949' AND GOT HUNG UP THEN JARRED IT LOOSE AND TRIPPED OUT OF THE LEFT THE LOGGING SUB ASSEMBLY, BIT, BIT SUB AND 9 JOINTS OF DRILL PIPE. 14:30 - 15:00 0.50 DRLPRV 23 Α Χ ***STUCK PIPE INSPECT THE DERRICK AFTER JARRING **OPERATIONS** 15:00 - 15:30 0.50 **DRLPRV** Р **RIG SERVICE** 07 Α 15:30 - 19:00 3.50 **DRLPRV** 06 Α Χ ***STUCK PIPE PICKED UP BHA #40VERSHOT (4.75" GRAPPLE), BUMPER SUB, CIRCULATING SUB, DRILLING JAR. TRIPPED IN THE HOLE TO 2591' 19:00 - 0:00 5.00 DRLPRV 03 Α ***STUCK PIPE WASH REAM AND TRIP TO WORK OUR WAY TO **BOTTOM** 3/12/2013 0:00 - 5:00 5.00 **DRLPRV** 03 Χ ***STUCK PIPE WORKING THROUGH A TIGHT SPOT @ 4880' CONDITIONING MUD 12.2 MW 38 VIS 15' FLARE FOR 1 HOUR ***STUCK PIPE 5:00 - 7:30 2.50 **DRLPRV** 06 Χ THE PIPE CAME FREE TRIPPED IN THE HOLE 4880' TO 6850' 7:30 - 10:00 2.50 **DRLPRV** 03 Χ ***STUCK PIPE WE HIT A BRIDGE @ 6850' AND WASHED DOWN TO 6861 PUMPS PRESSURED UP TO 2200 PSI CIRCULATING UP HEAVY PEA SIZE SHALE PUMPED A FEW SWEEPS AND RAISED THE VIS TO 40 TO CLEAN THE HOLE 25' FLARE FOR 1 HOUR 10:00 - 17:00 7.00 **DRLPRV** Х ***STUCK PIPE WORKING STUCK PIPE WE HAVE TRAVEL ON THE BUMPER SUB AND THE JARS WERE FUNCTIONING. WE COULD NOT **ROTATE** JARRING UP AND SOME DOWN TRYING TO WORK TORQUE INTO THE STRING TO GET IT TO ROTATE. CIRCULATING THE HOLE INTERMITTENTLY TO KEEP IT CLEAN

API Well Number: 43047523840000 US ROCKIES REGION **Operation Summary Report** Well: NBU 1022-1J1CS BLUE Spud Date: 9/23/2012 Site: NBU 1022-01J PAD Project: UTAH-UINTAH Rig Name No: PROPETRO 11/11, XTC 12/12 **Event: DRILLING** End Date: 3/21/2013 Start Date: 9/9/2012 UWI: NW/SE/0/10/S/22/E/1/0/0/26/PM/S/1877/E/0/2227/0/0 Active Datum: RKB @5,092.00usft (above Mean Sea P/U Date Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 17:00 - 17:30 0.50 **DRLPRV** 07 Χ Α ***STUCK PIPE RIG SERVICE 17:30 - 18:00 0.50 DRLPRV 19 Х ***STUCK PIPE Α DERRICK INSPECTION AFTER JARRING 18:00 - 21:00 3.00 **DRLPRV** 19 Α Х ***STUCK PIPE WORKING STUCK PIPE TRIED JARRING DOWN AND UP NO MOVMENT 21:00 - 21:30 0.50 **DRLPRV** 19 Χ Α ***STUCK PIPE DERRICK INSPECTION 21:30 - 0:00 2.50 **DRLPRV** 19 Χ Α ***STUCK PIPE JARRING UP WITH A CIRCULATING SWEDGE INSTALLED TO KEEP CIRCULATING WHILE JARRING 0:00 - 6:00 3/13/2013 6.00 DRLPRV 19 Α Х ***FREE POINT*** SAFETY MEETING WITH SLAUGH FISHING HAND AND RIG CREW, RIG UP AND RUN IN HOLE FREE POINT 6:00 - 7:30 1.50 **DRLPRV** 19 Χ **CIRC & COND MUD** CIRC BOTTOMS UP 12.2 38 VIS NO FLAIR. 7:30 - 9:00 1.50 DRLPRV 19 Χ Α WIPER TRIP** TRIP F / 6930' TO 6100' TRIP IN HOLE F / 6100' TO 6750' 9:00 - 17:30 DRLPRV 8.50 19 Α Χ **CIRC & COND MUD** 12.2 38 VIS NO FLAIR. WAIT ON CEMENTERS. 17:30 - 18:00 0.50 **DRLPRV** 19 Χ ***CIRC & COND MUD** RIG SERVICE TOP DRIVE, BLOCKS, CROWN. 18:00 - 22:00 4.00 **DRLPRV** 19 Х **CIRC & COND MUD** HOLD SAFETY MEETING WITH BJ CEMENTERS R/U BJ AND WAIT ON CEMENT. // TEST CMT @ BULK PLANT AND LOAD BULK TRUCK THEN DRIVE TO LOC. 22:00 - 23:30 1.50 DRI PRV 19 X **TEST LINES PUMP #1 CEMENT PLUG** HELD S/M WITH BJ TEST LINES TO 3000 PSI / 5 MIN PUMP 30 BBLS SPACER AHEAD PUMPED 180SKS 36.89 BBLS 15.8 PPG 1.15 YLD CLASS G CEMENT 43.1 BBLS DISPLACEMENT.

7/12/2013 2:15:26PM 17

23:30 - 0:00

0:00 - 2:00

4:30 - 6:00

- 4:30

- 11:00

11:00 - 13:00

2:00

6:00

3/14/2013

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TRIP OUT F / 6750' TO 6100' 1.5 MINUTES PER JOINT. THEN STARTED REVERSE CIRCULATE TO MAKE SURE CEMENT IS OUT OF DRILL STRING.// CIRC 40 BBLS @ 50 STROKES @700 PSI.

** PUMP HIGH VIS PILL** PUMPED 200 BBLS 75 VIS

** TRIP TO SHOE** TRIP OUT OF HOLE F/ 6100' TO 2280' IN SIDE CASING SHOE INSURE WE WERE FREE

** #2 CEMENT PLUG** HELD S/M WITH BJ PRIME TRUCK PUMP 30 BBLS SPACER AHEAD PUMPED 205

CIRC BOTTOMS UP TRIP OUT OF HOLE LAY DOWN

SKS 36.17 BBLS 17 PPG 0.99 YLD CLASS G WHIPSTCK CEMENT 4.7 BBLS 12.3 MUD DISPLACEMENT. RIG DOWN CEMENTERS.

TRIP IN HOLE 10 JTS TO 2729'

DRILL STRING & FISHING TOOLS.

CUT DRILLING LINE CUT 97.5 FEET

API Well Number: 43047523840000 US ROCKIES REGION **Operation Summary Report** Well: NBU 1022-1J1CS BLUE Spud Date: 9/23/2012 Project: UTAH-UINTAH Site: NBU 1022-01J PAD Rig Name No: PROPETRO 11/11, XTC 12/12 **Event: DRILLING** End Date: 3/21/2013 Start Date: 9/9/2012 UWI: NW/SE/0/10/S/22/E/1/0/0/26/PM/S/1877/E/0/2227/0/0 Active Datum: RKB @5,092.00usft (above Mean Sea P/U Date Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 13:00 - 18:00 5.00 **DRLPRV** 13 Ρ Α ** WAIT ON CEMENT ** WHILE WAITING DONE RIG MAINTENANCE / REPLACED SHEAVE IN DERRICK, LUBRICATE RIG, STRAP BHA, M.M PREP TO PICK UP BHA. TRANSFER HEAVY MUD FROM PITS TO UPRIGHS AND FLOWZAN TO ACTIV PITS. 18:00 - 21:30 3.50 **DRLPRV** 06 PICK UP BIT WETHERFORD DIR TOOLS Α SCRIB, SURFACE TEST GOOD. TRIP IN HOLE TO 21:30 - 0:00 2.50 DRLPRV Р 13 Α **WAIT ON CEMENT** WORKED ON GETING FLOWZAN MUD IN SHAPE. 0:00 - 0:30 3/15/2013 0.50 **DRLPRV** 06 Α Ρ HELD S/M TRIP IN HOLE TO 2153' TAG CEMENT. 0:30 - 2:30 2.00 **DRLPRV** F Р DRILL CEMENT F/ 2153' TO 2377' 02 2:30 - 5:30 3.00 **DRLPRV** 02 G DRESS PLUG F/ 2377' TO 2380' // SLIDE 30' THEN BEGAN TO SLIDE AND ROT. TO 2410' 5:30 - 10:00 4.50 **DRLPRV** 02 В DRILL / SLIDE** F/ 2410' TO 2553' 143' @ 31 FPH TAKEING CHECK SHOTS TO KEEP AWAY FROM 10:00 - 16:00 6.00 **DRLPRV** 06 Ρ TRIP OUT LAY DOWN DIR TOOLS INSPECT BIT, BEND M.M TO 1.41 BEND, PICK UP DIR TOOLS SCRIBE AND TEST TOOL. TRIP HOLE TO 2553' 16:00 - 17:30 DRLPRV 1.50 02 В DRILL SLIDE* F/ 2553' - 2642' (89' @ 59' / HR) WEIGHT ON BIT 12-18 K. AVERAGE WEIGHT ON BIT 13 K ROTARY RPM 0-15, MUD MOTOR RPM 87 STROKES PER MINUTE 80 GALLONS PER MINUTE 360. OFF/ON PSI 860/1010. DIFFERENTIAL 183. TORQUE HIGH/LOW 5676 / 3136 **OFF BOTTOM TORQUE 3136** STRING WEIGHT UP/DOWN/ROT 80/55/70. DRAG 15 NOV RUNNING 1 CENTRIFUGES ON DEWATER. WT 8.8 VIS 30. ///// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. NO FLARE Footage Slide-22'=24% Rotate-67'=76% Time Slide-0.25Hrs=12% Rotate-1.75Hrs=88% 14' Left, 12' High of SideTrack Plan Line 15' Left, 25' High of Existing well 17:30 - 18:00 0.50 **DRLPRV** 07 Ρ RIG SERVICE TOP DRIVE BLOCKS.

API We	ll Number	4304	752384			KIES R	EGION	
				Opera	tion S	umma	ary Report	
Well: NBU 1022-	-1J1CS BLUE						Spud Date: 9/2	3/2012
Project: UTAH-U	IINTAH		Site: NBL	1022-01	J PAD			Rig Name No: PROPETRO 11/11, XTC 12/12
Event: DRILLING	 3		Start Date	9/9/201	2			End Date: 3/21/2013
Active Datum: R	KB @5,092.00usft (at	oove Mean S	_			L 0/S/22/E/	1/0/0/26/PM/S/18	
Level)	·							
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	18:00 - 0:00	6.00	DRLPRV	02	В	P		DRILL SLIDE F/ 2642' TO 3265' (623 '@103.8 ' / HR) WEIGHT ON BIT 15-25 K. AVERAGE WEIGHT ON BIT 20 K. ROTARY RPM 60, MUD MOTOR RPM 104. STROKES PER MINUTE 115 GALLONS PER MINUTE 518. OFF/ON PSI 1350/1700. DIFFERENTIAL 390. TORQUE HIGH/LOW 6400 / 2800 OFF BOTTOM TORQUE 2800 STRING WEIGHT UP/DOWN/ROT 110/85/95. DRAG 15 K. NOV RUNNING 1 CENTRIFUGES ON DEWATER. WT 8.8 VIS 30. ///// DRILLING WITH FLOWZAN MUD CHEM //// PUMP LCM SWEEPS TO HELP WITH LOSSES. NO FLARE FootageFeet% Total623 Slide467.38% Rotate57792.62% TimeMinHrs% Total 3606 Slide450.7512.50% Rotate3155.2587.50% 3170' 23' North 24' West of center target
3/16/2013	5:30 - 6:00	0.50	DRLPRV	02	В	P		DRILL SLIDE F/ 3265' TO 3976' (711' @129.2 ' / HR) WEIGHT ON BIT 15-25 K. AVERAGE WEIGHT ON BIT 22 K. ROTARY RPM 60, MUD MOTOR RPM 104. STROKES PER MINUTE 115 GALLONS PER MINUTE 518. OFF/ON PSI 2000/1600. DIFFERENTIAL 400. TORQUE HIGH/LOW 6200 / 2800 OFF BOTTOM TORQUE 2800 STRING WEIGHT UP/DOWN/ROT 120/85/95. DRAG 25 K. NOV RUNNING 2 CENTRIFUGES ON DEWATER. WT 9.0 VIS 38. ///// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. NO FLARE Footage Slide-10'=1% Rotate-701'=99% Time Slide-0.16Hrs=4% Rotate-5.33Hrs=96% 15' North, 13' West of target center RIG SERVICE TOP DRIVE BLOCKS.

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				Opera	tion S	Summa	ry Report			
Vell: NBU 102	2-1J1CS BLUE			Spud Date: 9/23/2012						
Project: UTAH-	UINTAH		Site: NBL	J 1022-01	J PAD			Rig Name No: PROPETRO 11/11, XTC 12/12		
vent: DRILLIN	NG		Start Date	e: 9/9/201	12			End Date: 3/21/2013		
ctive Datum: evel)	RKB @5,092.00usft (a	bove Mean Se	ea	UWI: N	W/SE/0/1	0/S/22/E/	1/0/0/26/PM/S/18	377/E/0/2227/0/0		
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation		
	6:00 - 17:30	11.50	DRLPRV	02	В	P		DRILL SLIDE F/ 3976' TO 5339' (1363' @118.5 ' / HR) WEIGHT ON BIT 15-25 K. AVERAGE WEIGHT ON BIT 24 K. ROTARY RPM 60, MUD MOTOR RPM 104. STROKES PER MINUTE 115 GALLONS PER MINUTE 518. OFF/ON PSI 2229/1813. DIFFERENTIAL 371.9 TORQUE HIGH/LOW 7567 / 5200 OFF BOTTOM TORQUE 5200 STRING WEIGHT UP/DOWN/ROT 124/90/101. DRAG 23 K. NOV RUNNING 1 CENTRIFUGES ON DEWATER. WT 9.0 VIS 38. ///// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. NO FLARE Rotate132797.36% TimeMinHrs% Total 72012 Slide400.6666675.56% Rotate68011.3333394.44%		
								5289' Inc 0.20 Azm 63.49		
	17:30 - 18:00	0.50	DRLPRV	07	Α	Р		RIG SERVICE TOP DRIVE BLOCKS.		

				Opera	ition S	umma	ry Report			
Vell: NBU 102	2-1J1CS BLUE				23/2012					
Project: UTAH-	UINTAH		Site: NBL	J 1022-01	J PAD			Rig Name No: PROPETRO 11/11, XTC 12/12		
vent: DRILLIN	NG		Start Date	e: 9/9/201	12			End Date: 3/21/2013		
ctive Datum: I evel)	RKB @5,092.00usft (a	bove Mean Se	ea	UWI: N	W/SE/0/1	0/S/22/E/1	/22/E/1/0/0/26/PM/S/1877/E/0/2227/0/0			
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation		
	18:00 - 0:00	6.00	DRLPRV	02	В	P		DRILL SLIDE F / 5339' TO 5783' (444' @74' / HR) WEIGHT ON BIT 15-25 K. AVERAGE WEIGHT ON BIT 24 K. ROTARY RPM 60, MUD MOTOR RPM 104. STROKES PER MINUTE 115 GALLONS PER MINUTE 518. OFF/ON PSI 2229/1813. DIFFERENTIAL 371.9 TORQUE HIGH/LOW 7567 / 5200 OFF BOTTOM TORQUE 5200 STRING WEIGHT UP/DOWN/ROT 125/90/100. DRAG 25 K. NOV RUNNING 1 CENTRIFUGES ON DEWATER. WT 9.0 VIS 38. ///////// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. NO FLARE FootageFeet% Total444 Slide00.00% Rotate444100.00% TimeMinHrs% Total 3606 Slide000.00% Rotate3606100.00%		
								Rotate3606100.00% 5733' 15' North 10' West of center target 5733' Inc 1.25 Azm 147.46		

API Well Number: 43047523840000 US ROCKIES REGION **Operation Summary Report** Spud Date: 9/23/2012 Well: NBU 1022-1J1CS BLUE Project: UTAH-UINTAH Site: NBU 1022-01J PAD Rig Name No: PROPETRO 11/11, XTC 12/12 **Event: DRILLING** End Date: 3/21/2013 Start Date: 9/9/2012 UWI: NW/SE/0/10/S/22/E/1/0/0/26/PM/S/1877/E/0/2227/0/0 Active Datum: RKB @5,092.00usft (above Mean Sea P/U Date Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 0:00 - 1:00 3/17/2013 1.00 **DRLPRV** 02 В Ρ DRILL SLIDE F / 5783' TO 5872' (89" @89' / HR) WEIGHT ON BIT 15-25 K. AVERAGE WEIGHT ON BIT 24 K. ROTARY RPM 60. MUD MOTOR RPM 104. STROKES PER MINUTE 115 GALLONS PER MINUTE 518. OFF/ON PSI 2229/1813. **DIFFERENTIAL 371.9** TORQUE HIGH/LOW 7567 / 5200 OFF BOTTOM TORQUE 5200 STRING WEIGHT UP/DOWN/ROT 125/90/100. DRAG NOV RUNNING 1 CENTRIFUGES ON DEWATER. WT 9.0 VIS 38. ///// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. NO FLARE FootageFeet% Total89 Slide00.00% Rotate89100.00% TimeMinHrs% Total 601 Slide000.00% Rotate601100.00% 5822' 13' North 9' West of center target Inc 1.29 Azm 142.20 1.00 DRI PRV Ζ - 5:30 4 50 08 ** TRIP TO CASING SHOE DO TO GENS GOING DOWN** TROUBLE SHOOT GENS // TRIP F/ 5872' TO 2289' CIRC @ CASING SHOE. 5:30 - 6:00 0.50 **DRLPRV** 80 SERVICE TOP DRIVE AND DRAW TOOL. 6:00 - 12:30 DRLPRV Ζ 6.50 80 ** WORK ON GEN #3 CHANGE OUT AND RIG UP NEW GEN** TROUBLE SHOOT GEN'S, REPLACE GEN #3 AND TROUBLE SHOOT GEN,S COMING ON LINE. FIXED THE PROBLEM AND PREP TO TRIP IN HOLE. 12:30 - 13:00 0.50 **DRLPRV** 07 Α Ρ SERVICE GENS AND TOP DRIVE. 13:00 - 17:00 4.00 DRLPRV Ζ ** TRIP IN HOLE F/ 2289' TO 5872' 45' OF FILL . 08 Α

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				Opera	tion S	umma	ry Report	
Vell: NBU 1022	2-1J1CS BLUE						Spud Date: 9/2	23/2012
Project: UTAH-L	JINTAH		Site: NBU	J 1022-01	J PAD			Rig Name No: PROPETRO 11/11, XTC 12/12
Event: DRILLIN	G		Start Date	e: 9/9/201	2			End Date: 3/21/2013
Active Datum: R	RKB @5,092.00usft (a	bove Mean S	iea	UWI: N\	N/SE/0/1	0/S/22/E/	1/0/0/26/PM/S/18	377/E/0/2227/0/0
Level)								
Date	Time	Duration	Phase	Code	Sub	P/U	MD From	Operation
	Start-End 17:00 - 20:30	(hr) 3.50	DRLPRV	02	Code B	P	(usft)	DDILL OLIDE E (5070) TO 0000! (040) O 0 0! (LID)
	17.00 - 20.30	3.30	DRLPRV	02	Ь	Р		DRILL SLIDE F / 5872' TO 6090' (218' @ 6.2' / HR) WEIGHT ON BIT 15-25 K. AVERAGE WEIGHT ON BIT
								24 K.
								ROTARY RPM 60,
								MUD MOTOR RPM 104.
								STROKES PER MINUTE 115
								GALLONS PER MINUTE 518.
								OFF/ON PSI 2229/1813.
								DIFFERENTIAL 371.9
								TORQUE HIGH/LOW 7567 / 5200
								OFF BOTTOM TORQUE 5200
								STRING WEIGHT UP/DOWN/ROT 125/90/100. DRAG
								25 K.
								NOV RUNNING 1 CENTRIFUGES ON DEWATER.
								WT 9.0 VIS 38.
								///// DRILLING WITH FLOWZAN MUD CHEM ////
								PUMP LCM SWEEPS TO HELP WITH LOSSES.
								NO FLARE
								FootageFeet%
								Total218
								Slide2712.39%
								Rotate19187.61%
								TimeMinHrs%
								Total 2103.5
								Slide450.7521.43%
								Rotate1652.7578.57%
								5997' 10' North 6' West of center target Inc 1.45
								Azm 91.58
	20:30 - 0:00	3.50	DRLPRV	80	Α	Z		** WORK ON GEN #3 ** TRIP OUT 5 JNTS / TROUBLE
								SHOOT #3 GEN, IS GLOWING HOT ON TURBO.
								BLOWING FLAMES.
3/18/2013	0:00 - 11:30	11.50	DRLPRV	80	Α	Z		** WORK ON GEN #3 ** WAIT ON TURBO THEN
								INSTALL TURBO TRIP IN HOLE AND PUT LOAD ON
								GEN.
	11:30 - 12:00	0.50	DRLPRV	07	Α	Р		SERVICE RIG,TOP DRIVE GEN'S,BLOCKS,CROWN.

						KIES RE			
				Opera	ition S	umma	ry Report		
Vell: NBU 102	2-1J1CS BLUE				23/2012				
Project: UTAH-	UINTAH		Site: NBL	J 1022-01	J PAD			Rig Name No: PROPETRO 11/11, XTC 12/12	
vent: DRILLIN	NG		Start Date	e: 9/9/201	12			End Date: 3/21/2013	
active Datum: level)	RKB @5,092.00usft (al	bove Mean S	ea	UWI: N	W/SE/0/1	0/S/22/E/1	/22/E/1/0/0/26/PM/S/1877/E/0/2227/0/0		
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation	
	12:00 - 18:00	6.00	DRLPRV	02	В	P		DRILL SLIDE F / 6090' TO 6621' (531' @ 88' / HR) WEIGHT ON BIT 15-25 K. AVERAGE WEIGHT ON BIT 24 K. ROTARY RPM 60, MUD MOTOR RPM 104. STROKES PER MINUTE 130 GALLONS PER MINUTE 585. OFF/ON PSI 2140/2304. DIFFERENTIAL 325.5 TORQUE HIGH/LOW 8827 / 6452 OFF BOTTOM TORQUE 6452 STRING WEIGHT UP/DOWN/ROT 143/106/120. DRAG 23 K. NOV RUNNING 1 CENTRIFUGES ON DEWATER. WT 9.1 VIS 38. ////// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. NO FLARE FootageFeet% Total531 Slide519.60% Rotate48090.40% TimeMinHrs% Total 3305.5 Slide500.83333315.15% Rotate2804.66666784.85%	
								6526' 11' North 8' West of center target Inc 1.14 Azm 304.00	

API We	ll Number	4304	752384			KIES R	EGION	
				Opera	tion S	Summa	ary Report	
Well: NBU 1022-	1J1CS BLUE						Spud Date: 9/2	3/2012
Project: UTAH-U	INTAH		Site: NBU	1022-01	J PAD			Rig Name No: PROPETRO 11/11, XTC 12/12
Event: DRILLING	3		Start Date	e: 9/9/201	2			End Date: 3/21/2013
	KB @5,092.00usft (al	oove Mean S	ea	UWI: NV	N/SE/0/1	0/S/22/E/	1/0/0/26/PM/S/18	77/E/0/2227/0/0
Level) Date	Time	Duration	Phase	Code	Sub	P/U	MD From	Operation
	Start-End 18:00 - 0:00	(hr) 6.00	DRLPRV	02	Code	P	(usft)	·
								DRILL SLIDE F 6621' TO 6977' (356' @ 59.3' / HR) WEIGHT ON BIT 15-25 K. AVERAGE WEIGHT ON BIT 24 K. ROTARY RPM 60, MUD MOTOR RPM 104. STROKES PER MINUTE 130 GALLONS PER MINUTE 585. OFF/ON PSI 1900/2300. DIFFERENTIAL 262 TORQUE HIGH/LOW 7500 / 3500 OFF BOTTOM TORQUE 3500 STRING WEIGHT UP/DOWN/ROT 145/110/125. DRAG 20 K. NOV RUNNING 1 CENTRIFUGES ON DEWATER. WT 9.2 VIS 38. ////// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. NO FLARE Footage Slide-22'=7% Rotate-334'=93% Time Slide-0.75Hrs=13% Rotate-4.75Hrs=87%
3/19/2013	0:00 - 5:30	5.50	DRLPRV	02	В	P		17' North, 10' West of target center DRILL SLIDE F 6977' TO 7286' (309' @ 59.3' / HR) WEIGHT ON BIT 15-25 K. AVERAGE WEIGHT ON BIT 24 K. ROTARY RPM 60, MUD MOTOR RPM 104. STROKES PER MINUTE 130 GALLONS PER MINUTE 585. OFF/ON PSI 1900/2300. DIFFERENTIAL 262 TORQUE HIGH/LOW 7500 / 3500 OFF BOTTOM TORQUE 3500 STRING WEIGHT UP/DOWN/ROT 145/110/125. DRAG 20 K. NOV RUNNING 1 CENTRIFUGES ON DEWATER. WT 9.2 VIS 38. ///// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. NO FLARE Footage Slide-22'=7% Rotate-287'=93% Time Slide-0.75Hrs=13% Rotate-4.75Hrs=87%
_	5:30 - 6:00	0.50	DRLPRV	07	Α	Р		17' North, 10' West of target center SERVICE RIG,TOP DRIVE GEN'S,BLOCKS,CROWN.

						KIES RE		
				Opera	ition S	umma	ry Report	
Vell: NBU 102	2-1J1CS BLUE						Spud Date: 9/2	23/2012
Project: UTAH-	UINTAH		Site: NBL	J 1022-01	J PAD			Rig Name No: PROPETRO 11/11, XTC 12/12
vent: DRILLIN	IG		Start Date	e: 9/9/201	12			End Date: 3/21/2013
Active Datum: .evel)	RKB @5,092.00usft (al	bove Mean S	ea	UWI: N\	W/SE/0/10	0/S/22/E/1	/0/0/26/PM/S/18	377/E/0/2227/0/0
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:00 - 17:30	11.50	DRLPRV	02	В	P		DRILL SLIDE F 7286' TO 7905' (619' @53.8' / HR) WEIGHT ON BIT 15-25 K. AVERAGE WEIGHT ON BIT 24 K. ROTARY RPM 60, MUD MOTOR RPM 104. STROKES PER MINUTE 130 GALLONS PER MINUTE 585. OFF/ON PSI 2908/3095. DIFFERENTIAL 618 TORQUE HIGH/LOW 9052 / 7339 OFF BOTTOM TORQUE 7339 STRING WEIGHT UP/DOWN/ROT 162/121/131. DRAG 31 K. NOV off line WT 11.4 VIS 44. ////// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. NO FLARE FootageFeet% Total619 Slide519.60% Rotate56890.40% TimeMinHrs% Total 69011.5 Slide1752.91666725.36% Rotate5158.58333374.64%
	17:20	0.50	DDI SSI			Б		7855': 13' N / 5'W of center of target
	17:30 - 18:00	0.50	DRLPRV	07	Α	Р		SERVICE RIG,TOP DRIVE GEN'S,BLOCKS,CROWN.

	B BLUE			Opera	stian C			
roject: UTAH-UINTAH vent: DRILLING ctive Datum: RKB @5 evel) Date	BLUE			- p -	ilion 3	umma	ry Report	
ivent: DRILLING active Datum: RKB @5 evel) Date							Spud Date: 9/2	23/2012
evel) Date	l		Site: NBL	J 1022-01	J PAD			Rig Name No: PROPETRO 11/11, XTC 12/12
evel) Date			Start Date	e: 9/9/201	12			End Date: 3/21/2013
	5,092.00usft (al	bove Mean Se	ea	UWI: N\	W/SE/0/10	0/S/22/E/1	/0/0/26/PM/S/18	377/E/0/2227/0/0
18:00	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	0 - 0:00	6.00	DRLPRV	02	В	P		DRILL SLIDE F 7905' TO 8095' (190' @31' / HR) WEIGHT ON BIT 15-25 K. AVERAGE WEIGHT ON BIT 24 K. ROTARY RPM 60, MUD MOTOR RPM 104. STROKES PER MINUTE 130 GALLONS PER MINUTE 585. OFF/ON PSI 2818/2974. DIFFERENTIAL 404 TORQUE HIGH/LOW 8553 / 5563 OFF BOTTOM TORQUE 5563 STRING WEIGHT UP/DOWN/ROT 155/120/135. DRAG 20 K. NOV OFF LINE WT 11.4 VIS 45. ///// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. NO FLARE FootageFeet% Total 190 Slide 2211.58% Rotate 16888.42% TimeMinHrs% Total 3606 Slide 701.16666719.44% Rotate 2904.83333380.56%

API We	ll Number	÷ 4304′	752384			KIES R	EGION	
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Well: NBU 1022-	1J1CS BLUE						Spud Date: 9/2	23/2012
Project: UTAH-U	INTAH		Site: NBL	J 1022-01	J PAD			Rig Name No: PROPETRO 11/11, XTC 12/12
Event: DRILLING	3		Start Date	e: 9/9/201	12			End Date: 3/21/2013
Active Datum: RI Level)	KB @5,092.00usft (a	bove Mean Se	ea	UWI: N\	W/SE/0/1	0/S/22/E/	1/0/0/26/PM/S/18	377/E/0/2227/0/0
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
3/20/2013	0:00 - 5:30	5.50	DRLPRV	02	В	P		DRILL SLIDE F 8095' TO 8259 (164' @30' / HR) WEIGHT ON BIT 15-25 K. AVERAGE WEIGHT ON BIT 24 K. ROTARY RPM 55, MUD MOTOR RPM 104. STROKES PER MINUTE 115 GALLONS PER MINUTE 518. OFF/ON PSI 2884/3024. DIFFERENTIAL 144 TORQUE HIGH/LOW 9671 / 8102 OFF BOTTOM TORQUE 8102 STRING WEIGHT UP/DOWN/ROT 158/122/138. DRAG 20 K. NOV OFF LINE WT 11.4 VIS 45. ////// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. NO FLARE Footage Slide-12'=13% Rotate-152'=87% Time Slide-1.16Hrs=21% Rotate-4.33Hrs=79%
	5:30 - 6:00	0.50	DRLPRV	07	Α	Р		6' North, 13' East of target center SERVICE RIG, TOP DRIVE GEN'S, BLOCKS, CROWN.

API WE	ell Number	• 4304	:/5 Z384			KIES RE	EGION	
				Opera	tion S	Summa	ry Report	
Vell: NBU 1022	2-1J1CS BLUE						Spud Date: 9/2	23/2012
Project: UTAH-L	JINTAH		Site: NBU	1022-01	J PAD			Rig Name No: PROPETRO 11/11, XTC 12/12
event: DRILLIN	G		Start Date	e: 9/9/201	2			End Date: 3/21/2013
Active Datum: F	RKB @5,092.00usft (al	oove Mean S		1		0/S/22/E/1	1/0/0/26/PM/S/18	377/E/0/2227/0/0
.evel)	3 ,							
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:00 - 16:00	10.00	DRLPRV	02	В	P		DRILL SLIDE F/ 8259' TO 8575' TD WELL (316' @31' / HR) WEIGHT ON BIT 15-25 K. AVERAGE WEIGHT ON BIT 24 K. ROTARY RPM 55, MUD MOTOR RPM 104. STROKES PER MINUTE 115 GALLONS PER MINUTE 518. OFF/ON PSI 2800/2900. DIFFERENTIAL 250 TORQUE HIGH/LOW 9000 / 8122 OFF BOTTOM TORQUE 8102 STRING WEIGHT UP/DOWN/ROT 162/122/138. DRAG 24 K. NOV OFF LINE WT 12.1 VIS 42. ////// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. NO FLARE Footage Slide-0'=0% Rotate-316'=100% Time Slide-OHrs=0% Rotate-10Hrs=100% 7' South, 20' East of target center
	16:00 - 18:00	2.00	DRLPRV	05	С	Р		CIRCULATE AND CONDITION FOR A WIPER TRIP
	18:00 - 23:00	5.00	DRLPRV	06	E	Р		WIPER TRIP TO 6800' PULLED 40 JOINTS: 20-30 K DRAG NO BRIDGES GOING BACK IN.
	23:00 - 0:00	1.00	DRLPRV	05	С	Р		CIRCULATE BOTTOMS UP. PREP RIG FLOOR TO LAY DOWN DRILL STRING.
3/21/2013	0:00 - 0:30	0.50	DRLPRV	05	С	Р		CIRCULATE BOTTOMS UP. PREP RIG FLOOR TO LAY DOWN DRILL STRING.
	0:30 - 8:00	7.50	DRLPRV	06	Α	Р		TRIP OUT OF THE HOLE LAY DOWN PIPE AND BHA TIGHT AT 4200'
	8:00 - 8:30	0.50	DRLPRV	14	В	Р		PULL WEAR BUSHING
	8:30 - 18:00	9.50	CSGPRO	12	С	Р		RAN 205 TOTAL JTS. OF CASING (90 JOINTS OF 4.5"/11.6# / I-80/ LTC + 1 MARKER) + (113 JTS. OF 4.5"/ 11.6# / I-80/ DQX) + (1-DQX CROSS OVER). LANDED @ 8549.68', FLOAT COLLAR @ 8507.0', MESA VERDE MARKER @ 6352.5', CROSS OVER JT. @ 4988.6'. BRIDGE @ 4217'
	18:00 - 19:00	1.00	CSGPRO	05	D	Р		CIRCULATED CASING ON BOTTOM 80STKS 360 GPM 700 PSI NO FLARE

API We	ell Number	• 4304	752384		S ROC	KIES R	EGION	
				Opera	ation S	umma	ary Report	
Well: NBU 1022	-1J1CS BLUE						Spud Date: 9/2	23/2012
Project: UTAH-l	JINTAH		Site: NBL	J 1022-01	IJ PAD			Rig Name No: PROPETRO 11/11, XTC 12/12
Event: DRILLIN	G		Start Date	e: 9/9/201	12			End Date: 3/21/2013
Active Datum: F Level)	RKB @5,092.00usft (a	bove Mean S	ea	UWI: N	W/SE/0/1	0/S/22/E/	1/0/0/26/PM/S/18	377/E/0/2227/0/0
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	19:00 - 22:00	3.00	CSGPRO	12	E	P		HELD A SAFETY MEETING WITH BJ CEMENTERS, RIGGED UP THE CEMENTING HEAD, PRESSURE TES TO 4500 PSI. DROPPED THE BOTTOM PLUG, PUMP 25 BBLS OF FRESH WATER. PUMP 160 BBLS (507 SX) OF PREMIUM LITE II LEAD CEMENT,13.0 PPG 1.77 YLD, LB/SACK OF STATIC FREE + .4%BWOC R-3 +.25 LBS/SACK CELLO FLAKE + 5 LBS/SACK KOL-SEAL + .4% BWOC FL-52 + .2%BWOC SODIUM METASILICATE + 6% BWOC BENTONITE + 100.1%FRESH WATER . FOLLOWED BY 218 BBLS (927 SX) OF 14.3# 1.32 YD 5.92 GAL/SK. POZ 50/50 TAIL CEMENT + 2% BWOC BENTONITEII + .005 LB/SACK STATIC FREE + 10% BWOW SODIUM CHLORIDE + .55%BWOC R-3 + .002GPS FP-6L +.75%BWOC SODIUM METASILICATE + 58.7% FRESH WATER . SHUT DOWN AND FLUSH LINES. DROP PLUG AND DISPLACE W/ 132.3 BBLS OF FRESH WATER TREATED WITH CLAYFIX AND MAGNACIDE. , 20 BBLS OF WATER AND NO CEMENT TO SURFACE. LIFT PSI OF 2412 / BUMP PLUG 3027 PSI PRESSURE HELD 5 MINS. FLOAT HELD. FLOW BACK 1.5 BBLS. EST. TOC FOR LEAD 480', EST TOC FOR TAIL 3813'. RIG DOWN CEMENTERS.
	22:00 - 22:30	0.50	CSGPRO	14	В	Р		SET THE PACK OFF
	22:30 - 0:00	1.50	RDMO	14	Α	Р		NIPPLE DOWN THE BOP,PREP THE RIG TO SKID RIG RELEASED @00:00 3/21/2013

General

Customer Information [:

Company	US ROCKIES REGION
Representative	
Address	

Well/Wellbore Information 1.2

				I
				ΆΡΙ
			US ROCKIES REGION	EGION E
				11
General				Nun
Customer Information				mber:
Company	US ROCKIES REGION			4
Representative				30
Address)4
Well/Wellbore Information	tion			75238
Well	NBU 1022-1J1CS BLUE	ST No.	01	340
Well Name	NBU 1022-1J1CS	Wellbore Name	NBU 1022-1J1CS ST #1	00
Report No.	1	Report Date	6/3/2013	00
Project	UTAH-UINTAH	Site	NBU 1022-01J PAD)
Rig Name/No.	MILES-GRAY 1/1	Event	COMPLETION	
Start Date	5/7/2013	End Date	6/21/2013	
Spud Date	9/23/2012	Active Datum	RKB @5,092.00usft (above Mean Sea Level)	
UWI	NW/SE/0/10/S/22/E/1/0/0/26/PM/S/1877/E/0/2227/0/C			

General ..

Contractor	Job Method	Supervisor	
Perforated Assembly	Conveyed Method		

Summary

1.5

Initial Conditions 1.4

Fluid Type		Fluid Density	Gr	Gross Interval	5,833.0 (usft)-8,399.0 (usft Start Date/Time	6/3/2013 12:00AM
Surface Press		Estimate Res Press	ON	lo. of Intervals	64 End Date/Time	6/3/2013 12:00AM
TVD Fluid Top		Fluid Head	01	otal Shots	218 Net Perforation Interval	66.00 (usft)
Hydrostatic Press		Press Difference	Av	Avg Shot Density	3.30 (shot/ft) Final Surface Pressure	
Balance Cond	NEUTRAL				Final Press Date	

Intervals

Perforated Interval 2.1

July 16, 2013 at 2:47 pm

Misrun	
Reason	23.00 PRODUCTIO N
Charge Weight (gram)	23.00
Charge Desc /Charge Manufacturer	
Phasing (°)	00:06
Carr Size (in)	3.375
Carr Type /Stage No	EXP/
Diamete r (in)	0.360 EXP/
Misfires/ Add. Shot	
Shot Density (shot/ft)	4.00
CCL-T MD Top MD Base Shot (usft) S (usft) (usft) (usft) (usft)	5,834.0
MD Top (usft)	5,833.0
CCL-T S (usft)	
(Jsn)	
Formation/ Reservoir	WASATCH/
Date	6/3/2013 12:00AM

OpenWells

Perforated Interval (Continued) 2.1

API Well	Nun	mber	: 4	304	175	238	400	00															
REGION	2	Misrun																					
US ROCKIES REGION		Keason	23.00 PRODUCTIO N																				
	ā	Charge Weight (gram)	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00
		Charge Desc /Charge Manufacturer																					
		Phasing (°)	90.00	00.06	90.00	00.06	00.06	90.00	00.06	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	90.00	90.00	90.00	90.00	90.00	90.00
		Size (in)	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375
	F C	Carr Type /Stage No	EXP/																				
	i	Diamete r (in)	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360 EXP/	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360 EXP/	0.360 EXP/
		Mistires/ Add. Shot	0	0	0	0	0	0	0	0	0	O	0	0	0	0	0	0	0	0	0	0	0
	_	ž ē ś	0 4.00	0 4.00	0 4.00	0 4.00	0 4.00	0 4.00	0 4.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	0 4.00	0 4.00	0 4.00	0 4.00	0 4.00	0 4.00
	0	MD Base (usft)	5,866.	5,894.0	5,940.0	5,952.0	6,180.0	6,207.0	6,239.0	6,578.0	6,610.0	6,660.0	0.669,0	6,717.0	6,730.0	6,759.0	6,787.0	6,961.0	7,085.0	7,137.0	7,153.0	7,164.0	7,220.0
	1	MD lop	5,865.0	5,893.0	5,939.0	5,951.0	6,179.0	6,205.0	6,237.0	6,577.0	0.609,9	6,659.0	6,698.0	6,716.0	6,729.0	6,758.0	6,786.0	0.096,9	7,084.0	7,136.0	7,152.0	7,163.0	7,219.0
:	(pa	CCL-1 S (usft)																					
:	Continue	CCL(@)																					
	Perforated Interval (Continued)	Formation/ Reservoir	WASATCH/	MESAVERDE/																			
		Date	6/3/2013 12:00AM																				

RECEIVED: Aug. 24, 2013

July 16, 2013 at 2:47 pm

Perforated Interval (Continued)

API Well M	Number	: 4	304	1752	238	400	00															
REGION	Misrun																					
US ROCKIES REGION	Reason	23.00 PRODUCTIO N																				
	Charge Weight (gram)	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00
	Charge Desc /Charge Manufacturer																					
	Phasing (*)	90.00	90.00	90.00	90.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00
	Carr Size (in)	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375
	Carr Type /Stage No	EXP/																				
	Diamete r (in)	စ္က	0.360	0.360	0.360	0.360	0.360	0.360	0.360 EXP/	0.360	0.360 EXP/	0.360	0.360 EXP/	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360 EXP/	0.360 EXP/
	Misfires/ Add. Shot																					
	Shot Density (shot/ft)		4.00	4.00	4.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	MD Base (usft)	7,313.0	7,324.0	7,353.0	7,372.0	7,425.0	7,437.0	7,461.0	7,471.0	7,482.0	7,516.0	7,530.0	7,542.0	7,588.0	7,603.0	7,613.0	7,624.0	7,660.0	7,688.0	7,719.0	7,750.0	7,782.0
	MD Top (usft)	7,312.0	7,323.0	7,352.0	7,371.0	7,424.0	7,436.0	7,460.0	7,470.0	7,481.0	7,515.0	7,529.0	7,541.0	7,587.0	7,602.0	7,612.0	7,623.0	7,659.0	7,687.0	7,718.0	7,749.0	7,781.0
je j	CCL-T S (usff)																					
Continue	(JJSN)																					
Perforated Interval (Continued)	Formation/ Reservoir	MESAVERDE/																				
2.1 Pe	Date	6/3/2013 12:00AM																				

RECEIVED: Aug. 24, 2013

July 16, 2013 at 2:47 pm

Perforated Interval (Continued)

API		.l Nu	mber	: 4	304	1752	238	400	00															
	REGIO		Misrun																					
	US ROCKIES REGION		Reason	23.00 PRODUCTIO N																				
			Charge Weight (gram)	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
			Charge Desc /Charge Manufacturer																					
			Phasing (°)	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00
			Carr Size (in)	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375	3.375
			Carr Type /Stage No	EXP/																				
			Diamete r (in)	0.360	0.360	0.360 E	0.360 EXP/	0.360 EXP/	0.360	0.360 E	0.360 EXP/	0.360	0.360 F	0.360	0.360	0.360 EXP/	0.360	0.360	0.360	0.360 EXP/	0.360	0.360	0.360 EXP/	0.360 EXP/
			Misfires/ Add. Shot																					
			Shot Density (shot/ft)	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
				7,795.0	7,808.0	7,821.0	7,837.0	7,872.0	0.906,7	7,947.0	8,022.0	8,041.0	8,060.0	8,071.0	8,101.0	8,124.0	8,149.0	8,192.0	8,209.0	8,234.0	8,295.0	8,315.0	8,376.0	8,399.0
				7,794.0	7,807.0	7,820.0	7,836.0	7,871.0	7,905.0	7,946.0	8,021.0	8,040.0	8,059.0	8,070.0	8,100.0	8,123.0	8,148.0	8,191.0	8,208.0	8,233.0	8,294.0	8,314.0	8,375.0	8,398.0
		(þ:	CCL-T S (usft)																					
		(Continue	(JJsn)																					
		Perforated Interval (Continued)	Formation/ Reservoir	MESAVERDE/																				
		Т.	Date	3/2013 2:00AM	3/2013 2:00AM	'3/2013 2:00AM	3/2013 2:00AM	3/2013 2:00AM	3/2013 2:00AM	3/2013 2:00AM	3/2013 2:00AM	3/2013 2:00AM	'3/2013 2:00AM	'3/2013 2:00AM	3/2013 2:00AM	3/2013 2:00AM	3/2013 2:00AM	3/2013 2:00AM	3/2013 2:00AM	'3/2013 2:00AM	3/2013 2:00AM	3/2013 2:00AM	'3/2013 2:00AM	3/2013 2:00AM

July 16, 2013 at 2:47 pm 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/3/2 6/ **RECEIVED:** Aug. 24, 2013

OpenWells

				U	S ROCI	KIES R	EGION	
				Opera	tion S	umm	ary Report	
Well: NBU 1022-	-1J1CS BLUE						Spud Date: 9/23	3/2012
Project: UTAH-U	INTAH		Site: NBU	1022-01	J PAD			Rig Name No: MILES-GRAY 1/1
Event: COMPLE	TION		Start Date	e: 5/7/201	3			End Date: 6/21/2013
Active Datum: RI Level)	KB @5,092.00usft (al	oove Mean Se	ea	UWI: NV	N/SE/0/10)/S/22/E	/1/0/0/26/PM/S/187	77/E/0/2227/0/0
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
5/7/2013	-							
5/31/2013	8:00 - 9:00	1.00	SUBSPR	33	С	P		FILL SURFACE CSG. MIRU CAMERON QUICK TEST. PRESSURE TEST CSG & FRAC VALVES 1ST PSI TEST T/ 7000 PSI. HELD FOR 15 MIN LOST 48 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI. PRESSURE TEST 8 5/8 X 4 1/2 TO 529 PSI HELD FOR 5 MIN LOST -29 PSI,BLED PSI OFF, REINSTALLED POP OFF
	9:00 - 9:00	0.00	SUBSPR	37		Р		PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF AS PER PERF DESIGN. POOH. SWIFW
6/3/2013	10:30 - 18:00	7.50	FRAC	36	В	Р		FRAC STG 1)WHP 1712 PSI, BRK 3407 PSI @ 4.2 BPM. ISIP 2507 PSI, FG. 0.74 ISIP 2513 PSI, FG. 0.74, NPI 6 PSI. SWI, XO T/ WL. SET CBP & PERF STG 2 AS DESIGNED. FRAC STG 2)WHP 2175 PSI, BRK 2743 PSI @ 4.2 BPM. ISIP 2147 PSI, FG. 0.7 ISIP 2739 PSI, FG. 0.78, NPI 592 PSI. SWI, XO T/ WL. SET CBP & PERF STG 3 AS DESIGN. SWIFN.
6/4/2013	-		FRAC	36	В	Р		FRAC STG 3)WHP 1850 PSI, BRK 3562 PSI @ 4.2 BPM. ISIP 2472 PSI, FG. 0.75 ISIP 2757 PSI, FG. 0.79, NPI 285 PSI. SWI, XO T/ WL. SET CBP & PERF STG 4 AS DESIGNED. FRAC STG 4)WHP 2070 PSI, BRK 5013 PSI @ 4.9 BPM. ISIP 2230 PSI, FG. 0.73 ISIP 2526 PSI, FG. 0.7, NPI 296 PSI. SWI, XO T/ WL. SET CBP & PERF STG 5 AS DESIGNED. FRAC STG 5)WHP 1845 PSI, BRK 2499 PSI @ 4.9 BPM. ISIP 2033 PSI, FG. 0.71 ISIP 2592 PSI, FG. 0.79, NPI 559 PSI. SWIFN.

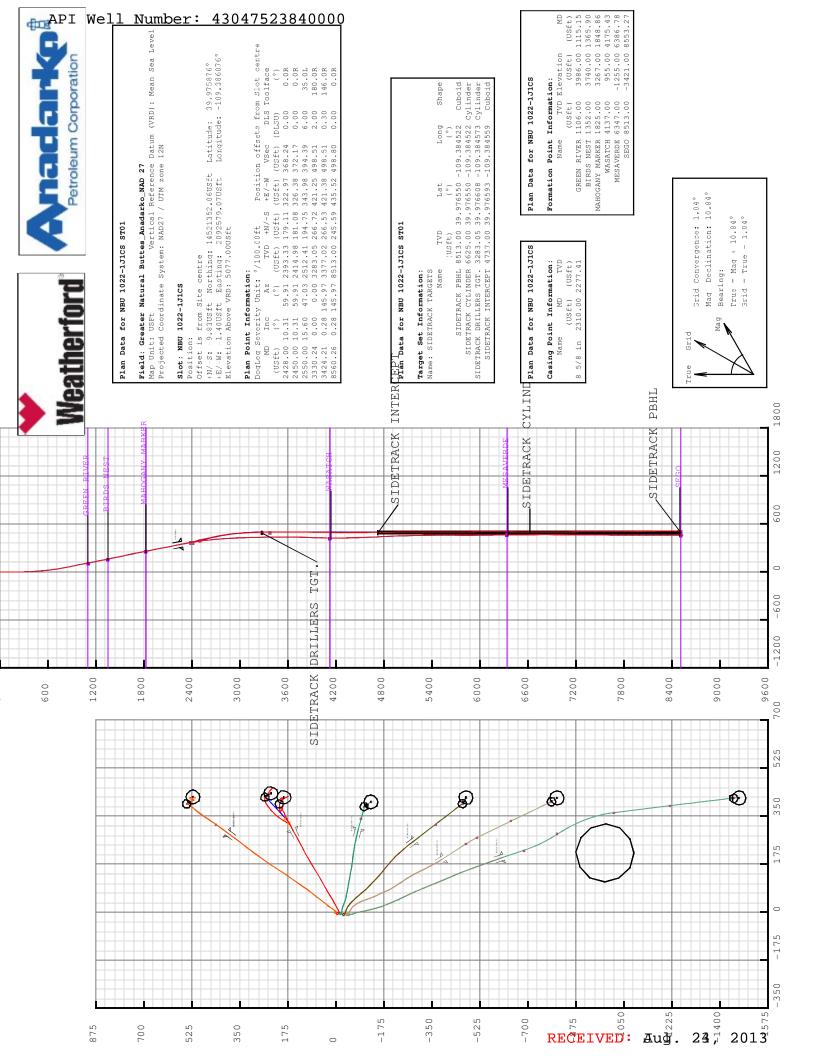
7/16/2013 2:45:08PM 1

API We	ell Number	: 4304	75238 4			KIES RE	EGION	
				Opera	tion S	umma	ry Report	
Well: NBU 1022	-1J1CS BLUE						Spud Date: 9/2	23/2012
Project: UTAH-L	JINTAH		Site: NBL	J 1022-01	J PAD			Rig Name No: MILES-GRAY 1/1
Event: COMPLE	TION		Start Date	e: 5/7/201	3			End Date: 6/21/2013
Active Datum: R Level)	RKB @5,092.00usft (al	bove Mean S	ea	UWI: N\	N/SE/0/1	0/S/22/E/1	I/0/0/26/PM/S/18	377/E/0/2227/0/0
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
6/5/2013	8:30 - 18:00	9.50	FRAC	36	В	Р	,	SET CBP & PERF STG 6 AS DESIGNED.
								FRAC STG 6)WHP 1402 PSI, BRK 3424 PSI @ 4.7 BPM. ISIP 2050 PSI, FG. 0.72 ISIP 2579 PSI, FG. 0.79, NPI 529 PSI. SWI, XO T/ WL. SET CBP & PERF STG 7 AS DESIGNED. FRAC STG 7)WHP 940 PSI, BRK 2928 PSI @ 4.8 BPM. ISIP 1947 PSI, FG. 0.71 ISIP 2632 PSI, FG. 0.81, NPI 685 PSI. SWI, XO T/ WL.
								SET CBP & PERF STG 8 AS DESIGNED. POOH. SWIFN.
6/6/2013	6:45 - 7:00	0.25	FRAC	48		Р		HSM. HGIH PSI LINES.
	7:00 - 18:00	11.00	FRAC	36	В	P		FRAC STG 8)WHP 385 PSI, BRK 2320 PSI @ 4.8 BPM. ISIP 1290 PSI, FG. 0.63 ISIP 2092 PSI, FG. 0.75, NPI 802 PSI. SWI, XO T/ WL. SET CBP & PERF STG 9 AS DESIGNED. FRAC STG 9)WHP 770 PSI, BRK 2674 PSI @ 4.7 BPM. ISIP 1531 PSI, FG. 0.69 ISIP 2776 PSI, FG. 0.89, NPI 1245 PSI. SWI, XO T/ WL. SET CBP & PERF STG 10 AS DESIGNED. FRAC STG 10)WHP 733 PSI, BRK 3164 PSI @ 4.9 BPM. ISIP 1514 PSI, FG. 0.7 ISIP 1900 PSI, FG. 0.76, NPI 386 PSI. SWI, XO T/ WL. PU 4 1/2 8K HAL CBP. RIH SET KILL PLUG @ 5783'. POOH, SWI. DONE FRACING THIS WELL. TOTAL SAND = 266,468 LBS. TOTAL CLFL = 12,003 BBLS.
6/20/2013	6:45 - 7:00	0.25	DRLOUT	48		Р		HSM. PITCH POINTS. OVER HEAD LOADS.
	7:00 - 15:00	8.00	DRLOUT	31	I	Р		RU RIG. OPEN WELL 0 PSI. ND WH. NU BOP. RU RIG FLOOR & TBG EQUIP. PREP & TALLY NEW 2 3/8 TBG. (150 JTS J-55 & 165 JTS L-80 TBG) PU 3 7/8 BIT + X-DART + POBS + 1.875 XN-NIPPLE. RIH W/ 150 JTS J-55 & 31 JTS L-80 TBG. EOT @ 5743'. (KP @ 5783') RU DRL EQUIP. SWIFN.
6/21/2013	6:45 - 7:00	0.25	DRLOUT	48		Р		HSM. STAY OFF FLOOR WHILE POWER SWIVEL IS TURNING.

7/16/2013 2:45:08PM 2

API We	ell Number	: 4304	752384			KIES R	EGION	
				Opera	ation S	Summa	ary Report	
Well: NBU 1022	-1J1CS BLUE			-			Spud Date: 9/2	23/2012
Project: UTAH-L			Site: NBU	J 1022-01	J PAD		<u> </u>	Rig Name No: MILES-GRAY 1/1
Event: COMPLE	TION		Start Date	e: 5/7/201	13			End Date: 6/21/2013
Active Datum: R Level)	KB @5,092.00usft (al	bove Mean S		1		10/S/22/E/	1/0/0/26/PM/S/18	377/E/0/2227/0/0
Date	Time	Duration	Phase	Code	Sub	P/U	MD From	Operation
	Start-End 7:00 - 17:00	10.00	DRLOUT	44	C C	P	(usft)	OPEN WELL 0 PSI. PSI TEST BOP T/ 3000 PSI. GOOD TEST. BLEED OFF PSI. BRK CONV CIRC. BEG DRL OUT. 1ST CBP, TAG SAND @ 5773' = 10' SAND. DRL OUT CBP @ 5783' IN 5 MIN. 100 PSI INCR. CONT RIH. 2ND CBP, TAG SAND @ 5952' = 30' SAND. DRL OUT CBP @ 5982' IN 5 MIN. 200 PSI INCR. CONT RIH. 3RD CBP, TAG SAND @ 6239' = 30' SAND. DRL OUT CBP @ 6269' IN 7 MIN. 100 PSI INCR. CONT RIH. 4TH CBP, TAG SAND @ 6787' = 30' SAND. DRL OUT CBP @ 6269' IN 7 MIN. 100 PSI INCR. CONT RIH. 5TH CBP, TAG SAND @ 7164' = 30' SAND. DRL OUT CBP @ 6817' IN 8 MIN. 200 PSI INCR. CONT RIH. 6TH CBP, TAG SAND @ 7372' = 30' SAND. DRL OUT CBP @ 7197' IN 5 MIN. 500 PSI INCR. CONT RIH. 6TH CBP, TAG SAND @ 7372' = 30' SAND. DRL OUT CBP @ 7402' IN 6 MIN. 300 PSI INCR. CONT RIH. 7TH CBP, TAG SAND @ 7542' = 30' SAND. DRL OUT CBP @ 7572' IN 5 MIN. 200 PSI INCR. CONT RIH. 8TH CBP, TAG SAND @ 7735' = 30' SAND. DRL OUT CBP @ 7765' IN 8 MIN. 200 PSI INCR. CONT RIH. 9TH CBP, TAG SAND @ 7947' = 30' SAND. DRL OUT CBP @ 7977' IN 5 MIN. 400 PSI INCR. CONT RIH. 10TH CBP, TAG SAND @ 8139' = 20' SAND. DRL OUT CBP @ 8169' IN 7 MIN. 500 PSI INCR. CONT RIH. 10TH CBP, TAG SAND @ 8139' = 20' SAND. DRL OUT CBP @ 8169' IN 7 MIN. 500 PSI INCR. CONT RIH. 10TH CBP, TAG SAND @ 8139' = 20' SAND. DRL OUT CBP @ 18169' IN 7 MIN. 500 PSI INCR. CONT RIH. 10TH CBP, TAG SAND @ 8139' = 20' SAND. DRL OUT CBP @ 8169' IN 7 MIN. 500 PSI INCR. CONT RIH. 10TH CBP, TAG SAND @ 8139' = 20' SAND. DRL OUT CBP @ 8169' IN 7 MIN. 500 PSI INCR. CONT RIH. 10TH CBP, TAG SAND @ 8139' = 20' SAND. DRL OUT CBP @ 3915' IN 7 MIN. 500 PSI INCR. CONT RIH. 10TH CBP, TAG SAND @ 8139' = 20' SAND. DRL OUT CBP @ 8169' IN 7 MIN. 500 PSI INCR. CONT RIH. 10TH CBP, TAG SAND @ 8139' = 20' SAND. DRL OUT CBP @ 8169' IN 7 MIN. 500 PSI INCR. CONT RIH. 10TH CBP, TAG SAND @ 8139' = 20' SAND. DRL OUT CBP @ 8169' IN 7 MIN. 500 PSI INCR. CONT RIH. 10TH CBP, TAG SAND @ 8139' = 20' SAND. DRL OUT CBP @ 8169' IN 7 MIN. 500 PSI INCR. CONT RIH. 10TH CBP, TAG SAND @ 1 TO
	17:00 - 17:00	0.00	DRLOUT	50				WELL TURNED TO SALES @ 13:30 HR ON 6/21/2013. 1745 MCFD, 1680 BWPD, FCP 2319#, FTP

7/16/2013 2:45:08PM 3



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5D Survey Report

Anadarko Petroleum

Greater Natural Buttes_Anadarko_NAD 27 NBU 1022-1J Field Name: Site Name:

NBU 1022-1J NBU 1022-1J1CS

Well Name:

Survey:

Definitive Survey

✓ Weatherford [®] 5D 7.5.3 : 4 April 2013, 20:41:57 UTC

Weatherford International Limited

5D Survey Report

5D 7.5.3 : 4 April 2013, 20:41:57 UTC

5D Survey Report



Surveys for the NBU 1022-131CS

Convergence Angle: 1.04	Latitude: 39.975903 Longitude: -109.386071			9.975876	Longitude: -109.386076							Az : 64.83°
Convergen	Latitude: 39.975903 Longitude: -109.386		Position (Offsets relative to Site Centre)	Latitude : 39.975876	Longitude			I:	Comment :	Closure Azimuth: 66.7485°		+E / -W: 0.00 US ft
North Reference : True	Northing: 14521361.92 USft Easting: 2092580.29 USft		Position (Offset	Northing:14521352.06 USft	Easting: 2092579.07 USft	evation		: IWU	£		rigin Relative to Slot)	+N / -S: 0.00 USft +E,
Units: US ft	Position	Elevation above:5077.00 US ft Comment:		+N / -S: -9.83 US ft	+E / -W: -1.40 US ft	Slot TVD Reference: Ground Elevation Elevation above: 5077.00 US ft	Comment:	Type: Main well	Rig Height <i>Drill Floor</i> : 15.00 US Relative to: 5092.00 US ft	Closure Distance: 460.516 US ft	Vertical Section (Position of Origin Relative to Slot)	Z +
	Site Name	NBU 1022-13			Slot Name	NBU 1022-131CS			O SECOND		NBU 1022-131CS	

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5D Survey Report

Target Set				
Name: NBU 1022-131CS	1022-1J1CS	Number of Targets : 4		
Comment:				
Target Name: PBHL	+N / -S:197.77US ft +E / -W:420.89 US ft	US ft 39 US ft	Position (Relative to centre) Northing: 14521557.42 US ft Easting: 2092996.31US ft	Latitude: 39°58'35.108312" Longitude: -109°23'4.466400"
Shape: Cuboid	TVD (Drill Floor): 8513.00 US ft):8513.00 US ft		
	Orientation Dimensions	Azimuth : 0.00° Length: 1.00 US ft	Inclination: 0.00° Breadth: 1.00 US ft	Height: 1.00 US ft
TargetName: INTERCEPT Shape:	+N / -S: 209.46US ft +E / -W : 403.22 US ft	US ft 22 US ft	Position (Relative to centre) Northing: 14521568.79 US ft Easting: 2092978.43US ft	Latitude: 39°58'35.223867" Longitude: -109°23'4.693420"
Cuboid	TVD (Drill Floor): 4737.00 US ft):4737.00 US ft		
	Orientation Dimensions	Azimuth:0.00° Length:1.00 USft	Inclination: 0.00° Breadth: 1.00 US ft	Height: 1.00 US ft
Target Name:	+N / -S: 197.77US ft	Sft	Position (Relative to centre) Northing: 14521557.42USft	Latitude: 39°58'35.108286"
25' CYL.	+E / -W : 420.90US ft	US ft	Easting: 2092996.31 US ft	Longitude: -109°23'4,466345"
onape: Cylinder	TVD (Drill Floor) : 6625.00 US ft	: 6625.00 US ft		
	Orientation	Azimuth: 1.04°	Inclination: 0.00°	
	Dimensions	Radius: 25.00 US ft	Length :3776.00 US ft	
Target Name:	+N / -S: 214.44US ft	Sft	Position (Relative to centre) Northing: 14521573.63USft	Latitude: 39°58'35.273092"
DRILLERS TGT.	+E / -W: 395.68US ft	US ft	Easting: 2092970.80 US ft	Longitude: -109°23'4.790286"
Snape: Cylinder	TVD (Drill Floor) : 3072.51 US ft	: 3072.51 US ft		

Weatherford International Limited

5D 7.5.3 : 4 April 2013, 20:41:57 UTC

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	Orientation	Azim	Azimuth : 1 04°			ri rilog	Toclination : 0 00°	°C					
	Dimensions	Radi	Radius: 15.00 US ft	£		Leng	Length :1.00 US ft	, ∉					
				П		П	П			П		П	
Survey Name :Definitive Survey	efinitive Survey												
Date : 31/Jan/2013	Ω.	nS	Survey Tool :			Comn	Comment :			Company:	: / ı		
Magnetic Model Model Name: BGGM	MS	Date: 31/Jan/2013	ın/2013		Field Stren	Field Strength: 52140.8 nT	3 nT	Declination: 10.84°	: 10.84°	l	Dip: 65.81°		
Survey Tool Ranges	ges												
	Name		Sta	Start MD (usft)	ft.)		End MD (us ft)	us ft)		S	Source Survey	/	
	MWE			0.00			2282.00	0			SDI SURFACE		
	MWE			2282.00			8575.00				WFT MWD surveys		
Casing Points (Relative to centre, TVD relative to Drill Floor)	e to centre, TVD r	elative to Drill	Floor)										
Name	MD (US ft)		Inc (°)	A7 (°)		TVD (US ft)	Z	N.Offset (US ft)	E.Offset (US ft)		Latitude (°)	ٽ	Longitude (°)
8 5/8 in	2310.00		11.21	62.87	_	2277.41	-	168.58	303.63		39.976339	-10	-109.384992
Well path created using minimum curvature	g minimum curvatur	ře											
Survey Points (Relative to		centre, TVD relative to Drill Floor)	II Floor)	ı	ı	ı	ı	ı	ı	ı	ı	ı	
MD Inc (US ft) (°)	, Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	Latitude (°)	_ongitude (°)	2LS (°/100 US ft)	T.Face (°)	CL (US ft)	VS (US ft)	Comment
0.00 0.00	00:00	00.0	0.00	00.0	14521352.06	2092579.07	39.975876	-109.386076	0.00	00.0	0.00	0.00	
	00.00	11.00	0.00	0.00	14521352.06	2092579.07	39.975876	-109.386076	00.0	00.0	11.00	0.00	
	00:00	15.00	0.00	0.00	14521352.06	2092579.07	39.975876	-109.386076	0.00	00.0	4.00	00.0	
		148.00	-0.61	-0.02	14521351.45	2092579.05	39.975874	-109.386076	0.40	182.24	133.00	-0.28	
		176.00	-0.86	-0.01	14521351.21	2092579.08	39.975874	-109.386076	0.46	240.62	28.00	-0.37	
205.00 0.35	5 138.21	205.00	-1.04	0.08	14521351.02	2092579.16	39.975873	-109.386076	0.87	224.86	29.00	-0.37	
234.00 0.70	0 109.38	234.00	-1.17	0:30	14521350.90	2092579.39	39.975873	-109.386075	1.48	307.95	29.00	-0.22	
262.00 1.06	5 94.70	261.99	-1.25	0.72	14521350.83	2092579.81	39.975873	-109.386073	1.51	320.46	28.00	0.12	

Survey Points (Relative to	(Relative to	centre, TVD I	centre, TVD relative to Drill Floor)	Il Floor)										
MC (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	Latitude (°)	_ongitude (°)	2LS (°/100 US ft)	T.Face (°)	CL (US ft)	VS (US ft)	Comm
0.00	00.0	00:0	0.00	00.0	00.0	14521352.06	2092579.07	39.975876	-109.386076	00.0	00.0	0.00	0.00	
11.00	0.00	0.00	11.00	0.00	0.00	14521352.06	2092579.07	39.975876	-109.386076	00.0	0.00	11.00	0.00	
15.00	00.0	0.00	15.00	0.00	0.00	14521352.06	2092579.07	39.975876	-109.386076	00.00	0.00	4.00	0.00	
148.00	0.53	182.24	148.00	-0.61	-0.02	14521351.45	2092579.05	39.975874	-109.386076	0.40	182.24	133.00	-0.28	
176.00	0.48	168.67	176.00	-0.86	-0.01	14521351.21	2092579.08	39.975874	-109.386076	0.46	240.62	28.00	-0.37	
205.00	0.35	138.21	205.00	-1.04	0.08	14521351.02	2092579.16	39.975873	-109.386076	0.87	224.86	29.00	-0.37	
234.00	0.70	109.38	234.00	-1.17	0:30	14521350.90	2092579.39	39.975873	-109.386075	1.48	307.95	29.00	-0.22	
262.00	1.06	94.70	261.99	-1.25	0.72	14521350.83	2092579.81	39.975873	-109.386073	1.51	320.46	28.00	0.12	
290.00	1.41	88.02	289.99	-1.26	1.32	14521350.83	2092580.41	39.975873	-109.386071	1.35	334.28	28.00	99.0	
319.00	1.58	81.17	318.98	-1.18	2.08	14521350.92	2092581.16	39.975873	-109.386069	0.85	310.11	29.00	1.38	
350.00	1.85	71.67	349.96	-0.96	2.97	14521351.16	2092582.06	39.975873	-109.386065	1.26	308.71	31.00	2.28	
440.00	3.52	64.82	439.86	0.67	6.85	14521352.86	2092585.91	39.975878	-109.386052	1.89	345.69	90.00	6.49	
530.00	5.35	62.18	529.59	3.81	13.07	14521356.11	2092592.06	39.975886	-109.386029	2.05	352.32	00.06	13.44	
620.00	7.03	60.95	619.06	8.44	21.59	14521360.89	2092600.50	39.975899	-109.385999	1.87	354.87	90.00	23.13	
710.00	8.88	61.74	708.19	14.40	32.53	14521367.05	2092611.33	39.975916	-109.385960	2.06	3.77	90.00	35.56	
800.00	10.82	59.28	796.86	22.01	45.91	14521374.90	2092624.57	39.975936	-109.385912	2.21	346.55	90.00	50.91	
00.068	11.34	58.67	885.18	30.92	60.73	14521384.08	2092639.23	39.975961	-109.385859	0.59	347.00	90.00	68.11	

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5D Survey Report

	Comment																TIE ON	FIRST MWD SURVEY																							
	VS (US ft)	85.90	103.33	120.33	137.71	155.18	173.17	191.81	210.60	228.89	246.15	263.27	280.76	298.16	315.33	332.74	341.00	368.48	375.69	388.62	398.94	407.33	414.21	419.49	424.23	427.78	430.02	431.87	433.22	433.85	434.09	434.16	434.06	432.58	429.33	426.11	424.10	422.99	421.80	422.00	424.22
	CL (US ft)	90.06	90.00	90.00	90.00	90.00	90.00	90.00	90.00	00.06	00.06	90.00	90.00	90.00	90.00	90.00	42.00	146.00	43.00	00.06	88.00	87.00	90.00	88.00	89.00	89.00	88.00	88.00	00.68	00.68	00.68	88.00	00.68	88.00	89.00	87.00	00.06	86.00	00.68	89.00	86.00
	T.Face (°)	332.04	141.49	21.45	323.21	251.86	18.56	116.61	38.48	210.20	152.27	82.22	326.53	239.40	300.37	72.44	49.55	209.42	193.47	148.20	184.04	157.43	204.11	185.94	143.47	171.25	151.55	153.32	146.89	102.87	45.39	181.00	165.74	18.61	303.79	92.64	133.85	197.49	206.24	155.14	59.76
	2LS (°/100 US ft)	0.34	1.15	0.20	0.48	99.0	1.03	0.23	0.37	1.15	0.56	1.11	0.34	08.0	0.20	0.68	0.55	06.0	2.90	2.21	1.70	1.13	1.77	0.55	0.45	1.42	0.51	0.10	69.0	0.43	0.50	69.0	0.75	2.78	92'0	1.09	1.21	0.71	0.61	2.46	1.87
	_ongitude (°)	-109.385805	-109.385751	-109.385698	-109.385643	-109.385589	-109.385535	-109.385477	-109.385419	-109.385362	-109.385309	-109.385255	-109.385199	-109.385144	-109.385091	-109.385036	-109.385010	-109.384923	-109.384901	-109.384861	-109.384827	-109.384799	-109.384777	-109.384761	-109.384746	-109.384735	-109.384727	-109.384720	-109.384715	-109.384711	-109.384708	-109.384706	-109.384706	-109.384713	-109.384728	-109.384744	-109.384756	-109.384765	-109.384772	-109.384773	-109.384764
	Latitude (°)	39.975987	39.976011	39.976033	39.976056	39.976081	39.976107	39.976134	39.976159	39.976185	39.976210	39.976232	39.976253	39.976275	39.976299	39.976322	39.976332	39.976368	39.976378	39.976395	39.976406	39.976415	39.976423	39.976431	39.976437	39.976441	39.976443	39.976444	39.976444	39.976442	39.976439	39.976436	39.976435	39.976437	39.976441	39.976445	39.976453	39.976460	39.976464	39.976467	39.976467
	Easting (US ft)	2092654.29	2092669.22	2092684.04	2092699.14	2092714.02	2092729.25	2092745.18	2092761.39	2092777.04	2092791.72	2092806.70	2092822.30	2092837.54	2092852.31	2092867.43	2092874.73	2092898.75	2092904.89	2092916.18	2092925.51	2092933.19	2092939.37	2092943.86	2092947.96	2092951.16	2092953.33	2092955.21	2092956.71	2092957.71	2092958.57	2092959.20	2092959.25	2092957.22	2092952.99	2092948.60	2092945.05	2092942.64	2092940.51	2092940.23	2092942.63
	Northing (US ft)	14521393.76	14521402.88	14521411.26	14521419.96	14521429.28	14521439.08	14521448.91	14521458.54	14521468.15	14521477.42	14521485.74	14521493.67	14521502.10	14521510.98	14521519.67	14521523.55	14521536.99	14521540.83	14521547.17	14521551.58	14521554.99	14521558.00	14521560.83	14521563.24	14521564.78	14521565.45	14521565.81	14521565.81	14521565.21	14521564.01	14521562.89	14521562.55	14521563.33	14521564.57	14521566.20	14521568.85	14521571.22	14521572.86	14521573.89	14521574.06
	E.Offset (US ft)	75.96	91.06	106.03	121.28	136.33	151.73	167.84	184.22	200.05	214.88	230.02	245.76	261.15	276.07	291.35	298.72	322.97	329.19	340.59	349.99	357.73	363.97	368.52	372.66	375.88	378.06	379.95	381.45	382.44	383.28	383.89	383.93	381.92	377.71	373.35	369.85	367.48	365.38	365.12	367.52
Il Floor)	N.Offset (US ft)	40.33	49.17	57.28	65.71	74.76	84.29	93.82	103.16	112.48	121.49	129.54	137.18	145.33	153.94	162.36	166.10	179.11	182.84	188.97	193.22	196.48	199.38	202.13	204.47	205.95	206.58	206.90	206.87	206.26	205.04	203.91	203.57	204.38	205.71	207.41	210.13	212.54	214.22	215.25	215.38
elative to Dri	TVD (US ft)	973.38	1061.66	1150.04	1238.33	1326.60	1414.76	1502.79	1590.80	1678.90	1767.21	1855.56	1943.85	2032.14	2120.48	2208.77	2249.95	2393.33	2435.71	2524.77	2612.16	2698.76	2788.49	2876.33	2965.20	3054.13	3142.10	3230.08	3319.07	3408.06	3497.05	3585.04	3674.04	3762.00	3850.89	3937.76	4027.65	4113.59	4202.55	4291.53	4377.50
centre, TVD relative to Drill Floor)	Az (°)	57.96	61.39	61.74	60.42	57.52	58.93	59.81	82.09	58.14	59.37	64.55	63.68	60.42	59.63	62.62	63.50	59.91	58.07	66.16	65.15	85.69	59.22	58.33	63.00	69.62	79.25	81.17	107.20	135.84	152.08	150.93	275.92	293.15	282.55	299.87	317.88	312.57	303.31	61.15	98.03
(Relative to	Inc (°)	11.61	10.82	10.99	11.34	11.1/	12.05	11.96	12.22	11.34	10.90	11.08	11.34	10.99	11.08	11.28	11.43	10.31	9.10	7.48	5.99	5.10	3.70	3.22	2.91	1.67	1.29	1.21	0.77	0.78	1.14	0.53	0.20	2.64	3.07	3.17	2.54	1.97	1.50	1.04	2.31
Survey Points (Relative to	MD (US ft)	00.086	1070.00	1160.00	1250.00	1340.00	1430.00	1520.00	1610.00	1700.00	1790.00	1880.00	1970.00	2060.00	2150.00	2240.00	2282.00	2428.00	2471.00	2561.00	2649.00	2736.00	2826.00	2914.00	3003.00	3092.00	3180.00	3268.00	3357.00	3446.00	3535.00	3623.00	3712.00	3800.00	3889.00	3976.00	4066.00	4152.00	4241.00	4330.00	4416.00

Weatherford International Limited

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5D Survey Report

Comment																																									
VS (US ft)	427.22	430.24	432.85	436.25	440.62	444.84	448.96	452.23	454.69	456.58	457.48	457.81	458.00	458.08	458.08	457.96	458.01	458.27	459.13	460.48	461.75	462.87	463.69	464.27	464.65	465.09	465.57	465.76	465.62	465.35	465.05	464.39	463.80	463.98	463.62	462.35	461.30	460.72	460.76	460.92	70 01
CL (US ft)	86.00	88.00	86.00	88.00	90.00	00.68	87.00	87.00	90.00	89.00	89.00	85.00	88.00	89.00	90.00	89.00	89.00	88.00	89.00	88.00	89.00	89.00	00.68	88.00	89.00	89.00	00.68	89.00	88.00	88.00	87.00	86.00	88.00	89.00	89.00	88.00	88.00	88.00	89.00	86.00	
T.Face (°)	1.80	176.39	182.34	315.23	201.05	77.50	310.03	98.13	196.63	159.27	181.61	92.66	38.49	33.03	10.30	171.73	176.98	183.85	20.00	174.54	145.68	174.70	188.59	154.14	125.51	341.16	58.27	48.96	152.89	294.72	42.24	32.29	172.20	164.71	233.32	200.00	215.04	243.14	322.43	85.55	
OLS (°/100 US ft)	0.17	0.23	0.41	1.43	0.13	66.0	0.04	2.13	0.16	1.00	2.04	0.16	0.22	0.14	0.28	0.94	1.22	60.0	1.59	0.43	0.28	0.46	0.31	69.0	0.42	0.45	0.52	0.22	0.67	0.20	0.25	0.47	1.39	69.0	1.83	0.45	0.87	1.06	98.0	0.24	
_ongitude (°)	-109.384752	-109.384739	-109.384728	-109.384715	-109.384699	-109.384683	-109.384666	-109.384650	-109.384635	-109.384622	-109.384616	-109.384614	-109.384611	-109.384609	-109.384606	-109.384605	-109.384605	-109.384606	-109.384606	-109.384605	-109.384604	-109.384603	-109.384602	-109.384601	-109.384599	-109.384597	-109.384594	-109.384590	-109.384589	-109.384588	-109.384587	-109.384587	-109.384588	-109.384587	-109.384590	-109.384596	-109.384600	-109.384601	-109.384598	-109.384594	
Latitude (°)	39.976466	39.976465	39.976463	39.976464	39.976466	39.976466	39.976465	39.976460	39.976451	39.976444	39.976439	39.976437	39.976434	39.976431	39.976427	39.976424	39.976425	39.976427	39.976433	39.976441	39.976447	39.976452	39.976456	39.976458	39.976458	39.976457	39.976454	39.976451	39.976447	39.976444	39.976441	39.976436	39.976433	39.976434	39.976436	39.976438	39.976438	39.976436	39.976431	39.976425	
Easting (US ft)	2092946.18	2092949.77	2092952.88	2092956.55	2092961.00	2092965.58	2092970.35	2092974.84	2092979.10	2092982.58	2092984.40	2092985.11	2092985.77	2092986.45	2092987.19	2092987.62	2092987.55	2092987.34	2092987.29	2092987.41	2092987.66	2092987.98	2092988.21	2092988.52	2092988.95	2092989.65	2092990.61	2092991.50	2092991.97	2092992.18	2092992.45	2092992.53	2092992.38	2092992.50	2092991.75	2092990.00	2092988.82	2092988.59	2092989.44	2092990.61	
Northing (US ft)	14521573.62	14521573.17	14521572.77	14521573.01	14521573.87	14521574.12	14521573.76	14521572.05	14521568.94	14521566.14	14521564.50	14521563.81	14521562.88	14521561.68	14521560.18	14521559.05	14521559.30	14521560.31	14521562.36	14521565.16	14521567.54	14521569.43	14521570.80	14521571.51	14521571.49	14521571.08	14521570.20	14521568.82	14521567.56	14521566.51	14521565.27	14521563.63	14521562.60	14521562.78	14521563.47	14521564.16	14521564.17	14521563.32	14521561.69	14521559.66	
E.Offset (US ft)	371.06	374.65	377.74	381.42	385.88	390.47	395.23	399.69	403.89	407.33	409.11	409.81	410.46	411.11	411.82	412.23	412.16	411.97	411.96	412.14	412.42	412.78	413.04	413.36	413.79	414.48	415.42	416.29	416.73	416.93	417.18	417.22	417.05	417.18	416.44	414.70	413.52	413.27	414.10	415.24	
N.Offset (US ft)	214.88	214.36	213.91	214.07	214.86	215.02	214.58	212.78	209.60	206.74	205.07	204.37	203.42	202.21	200.70	199.56	199.81	200.82	202.87	205.67	208.04	209.93	211.29	212.00	211.97	211.54	210.65	209.26	207.99	206.93	205.69	204.05	203.02	203.20	203.90	204.62	204.66	203.81	202.16	200.11	
TVD (US ft)	4463.42	4551.35	4637.29	4725.21	4815.10	4903.98	4990.85	5077.71	5167.56	5256.44	5345.41	5430.40	5518.39	5607.38	5697.37	5786.36	5875.36	5963.35	6052.32	6140.28	6229.25	6318.23	6407.22	6495.21	6584.21	6673.21	6762.20	6851.18	6939.17	7027.16	7114.16	7200.14	7288.13	7377.13	7466.12	7554.10	7642.09	7730.09	7819.07	7905.04	
Az (°)	98.14	98.46	50.86	80.48	79.62	95.50	95.07	127.45	126.72	134.00	129.65	140.97	149.30	153.56	155.74	174.23	349.60	349.11	2.99	4.26	9.89	12.01	8.92	60.22	128.72	118.39	144.16	151.76	175.93	163.72	172.73	182.44	249.37	47.89	295.70	288.36	242.19	165.14	147.10	154.68	
Inc (°)	2.46	2.26	1.91	2.94	2.83	3.14	3.16	3.43	3.29	2.48	0.67	0.67	0.83	0.94	1.19	0.38	0.71	0.63	2.02	1.64	1.44	1.03	0.76	0.34	0.33	0.72	66.0	1.13	99.0	0.75	0.92	1.28	0.18	0.44	1.41	1.05	0.61	0.85	1.55	1.58	
MD (US ft)	4502.00	4590.00	4676.00	4764.00	4854.00	4943.00	5030.00	5117.00	5207.00	5296.00	5385.00	5470.00	5558.00	5647.00	5737.00	5826.00	5915.00	6003.00	6092.00	6180.00	6269.00	6358.00	6447.00	6535.00	6624.00	6713.00	6802.00	6891.00	6979.00	7067.00	7154.00	7240.00	7328.00	7417.00	7506.00	7594.00	7682.00	7770.00	7859.00	7945.00	

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Survey Points (Relative to	Relative to	centre, TVD	centre, TVD relative to Drill Floor	ll Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	Latitude (°)	_ongitude (°)	OLS (°/100 US ft)	T.Face (°)	CI. (USft)	VS (US ft)	Comment
8120.00	1.89	159.90	8079.94	194.88	417.41	14521554.47	2092992.88	39.976411	-109.384586	0.14	137.75	87.00	460.66	
8208.00	1.61	158.13	8167.90	192.37	418.37	14521551.97	2092993.89	39.976404	-109.384583	0.32	190.04	88.00	460.46	
8297.00	1.80	154.40	8256.86	189.95	419.44	14521549.57	2092995.00	39.976397	-109.384579	0.25	327.84	89.00	460.40	
8385.00	1.81	156.80	8344.82	187.42	420.59	14521547.07	2092996.19	39.976391	-109.384575	60.0	83.66	88.00	460.36	
8525.00	1.89	155.25	8484.75	183.29	422.42	14521542.97	2092998.10	39.976379	-109.384569	0.07	327.20	140.00	460.27	LAST MWE SURVEY
8575.00	1.89	155.25	8534.72	181.80	423.11	14521541.49	2092998.82	39.976375	-109.384566	0.00	0.00	50.00	460.26	PROJECTION TO TD
Formation Points	ts (Relative	to centre, T	(Relative to centre, TVD relative to Drill Floor)	Drill Floor)										
		Name					MD (US ft)					TVD (US ft)		
		GREEN RIVER					1115.15					1106.00		
		BIRDS NEST					1365.90					1352.00		
	⁄W	MAHOGANY MARKER	Œ				1848.86					1825.00		
		WASATCH					4175.43					4137.00		
		MESAVERDE					6386.78					6347.00		
		SEGO					8553.27					8513.00		